

PAYE SET-UP

2018-2019

Submitted by: South Coast Area

Date: 8-Apr-19

DR	TYPE	ENTL CODE	EMPLOYEE NAME (LAST NAME, FIRST NAME)	PRI # (012345678 –no hyphen, no spaces)	RC	BL	ALLOT	LOBJ	PC	PAYE AMT	COMMENTS
DR	Acting (F/T)	002	Adams, Winona		51100	411	110	0101	00000	\$	Herring OT Herring OT Herring OT Herring OT Herring OT Herring OT
DR	(F/T)	001	Neuman, Amber		51100	411	110	0101	00000	\$	
DR	OT	260	Neuman, Amber		51100	411	110	0141	00000	\$	
DR	OT	260	Palfrey, Terrance		51100	411	110	0141	00000	\$	
DR	OT	260	O'Connell, Ryan		51100	411	110	0141	00000	\$	
DR	OT	260	Spence, Mike		51100	411	110	0141	00000	\$	
DR	OT	260	Rusch, Bryan		51100	411	110	0141	00000	\$	
DR	OT	260	Pearce, Stewart		51100	411	110	0141	00000	\$	
DR	(F/T)	001	Conley, Kevin		51100	431	110	0101	0000	\$	
DR											
DR	(P/T, CASUAL, TERM)	001	BURKE, ANDREW		51300	480	110	0104	00000	\$	
DR	(P/T, CASUAL, TERM)	001	JOHANSSON, JEANNETTE		51300	480	110	0104	00000	\$	
DR	(F/T)	001	NUGENT, KIMBERLEY		51300	480	110	0101	00000	\$	
DR	(F/T)	001	WILSON, ANITA		51300	480	110	0101	00000	\$	
DR											
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CR					56000	524	780	3171	00000	\$	(47 616.57)

Charron, Gizanne

From: DFO.Abacus.MPO@canada.ca
Sent: Monday, October 1, 2018 7:22 AM
To: Kronlund, Allen
Subject: Payment Notification/Avis de paiement

**** Please do not respond to this email****

The following payment will be processed by the Department of Fisheries and Oceans to KRONLUND, ALLEN.

Payment Amount : \$30.20
Voucher Number : 85206733595

Invoice Number : 261132-C
Invoice Description : ALP674409: RHQ-Herring12Sep18-1
Invoice Amount : \$30.20

Payments made by direct deposit should be received within four business days.
Payments made by cheque should be received within ten business days.

For any questions or to sign up for direct deposit, please contact the DFO Accounting Hub :
E-mail : DFOAccountingHub@DFO-MPO.GC.CA
Phone : (855) 859-6271

****S.V.P. ne pas répondre à ce courriel****

Le paiement suivant sera traité par le ministère des Pêches et Océans à KRONLUND, ALLEN.

Montant du paiement : \$30.20
Pièce justificative : 85206733595

Numéro de la facture : 261132-C
Description de la facture : ALP674409: RHQ-Herring12Sep18-1
Montant de la facture : 30,20\$

Les paiements par dépôt direct devraient être reçus dans les quatre jours ouvrables.
Les paiements par chèque devraient être reçus dans les dix jours ouvrables.

Si vous avez des questions ou pour vous inscrire au dépôt direct, n'hésitez pas à communiquer avec le centre de service comptable du MPO :
Courriel : DFOAccountingHub@DFO-MPO.GC.CA Téléphone : (855) 859-6271

s.16(2)(c)

Brown, Laura (Pacific)

From: Rusch, Bryan
Sent: 2018–November-19 7:51 PM
To: Goruk, Andrea; Brown, Laura (Pacific)
Subject: RE: Herring Management Platform - Procurement HUB deadline: Nov 30, 2018

Sounds good. I think we all agree on the approach for this year.

At some point in the near future, maybe not by Nov 30 but likely shortly after, we will need to confirm the funding that we have available. Last year we had 75K for this contract which came from a regional funding envelope (Andy's budget somewhere) and I assume we have the same funds available for 2019?

Thanks,

Bryan

From: Goruk, Andrea
Sent: Monday, November 19, 2018 11:26 AM
To: Brown, Laura (Pacific) <Laura.L.Brown@dfo-mpo.gc.ca>; Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>
Subject: RE: Herring Management Platform - Procurement HUB deadline: Nov 30, 2018

I agree, we did talk about putting out another contract in order to get potentially get something more cost effective, however, time has elapsed since then and Nov. 30 isn't very far away.

Andrea Goruk
250-756-7287
250- (cell)

From: Brown, Laura (Pacific)
Sent: 2018–November-19 11:02 AM
To: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Goruk, Andrea <Andrea.Goruk@dfo-mpo.gc.ca>
Subject: RE: Herring Management Platform - Procurement HUB deadline: Nov 30, 2018

Good call.

Laura

Laura L. Brown, PhD
Director, South Coast Area
Fisheries and Oceans Canada/Government of Canada
Laura.L.Brown@dfo-mpo.gc.ca Tel: 250 756-7280/Cell: 250

Directrice, secteur de la côte sud
Pêches et Océans Canada/Gouvernement du Canada
Laura.L.Brown@dfo-mpo.gc.ca Tel: 250 756-7280/Tél. cell.: 250

s.16(2)(c)

From: Rusch, Bryan
Sent: 2018–November-19 10:16 AM
To: Goruk, Andrea; Brown, Laura (Pacific)
Subject: Herring Management Platform - Procurement HUB deadline: Nov 30, 2018

I'm not sure what discussions when on a herring working group but at this point I would not plan on trying to re-do another contract process for the management platform unless I was directed otherwise. I don't think we have time and in doing it would have significant jeopardy in not having any management platform depending on the outcome.

Unless there is other direction I'm unaware I plan to proceed using the Canadian Shore under the science contract this year.

Thanks,

Bryan

From: Neuman, Amber
Sent: Monday, November 19, 2018 10:09 AM
To: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>
Subject: FW: Procurement HUB deadline: Nov 30, 2018

Hi Bryan,
Did you get a chance to talk to Andrea about the management platform? Are we sticking with the Canadian Shore? Note the deadline below if we want to put a new call out for bids.

Cheers,

Amber Neuman
Tel: (250) 756-7246| Cell: (250) [REDACTED]

From: Cleary, Jaclyn
Sent: 2018–November-18 5:19 PM
To: Neuman, Amber
Subject: Fwd: Procurement HUB deadline: Nov 30, 2018

Hi amber,
Have you any further direction for separate contract for SoG Mgmt platform? See deadline below.

J

Begin forwarded message:

From: "Haaland, Melody" <Melody.Haaland@dfo-mpo.gc.ca>
Date: November 13, 2018 at 8:20:20 AM PST
To: DFO.R PAC Science STAR QAM / MQE ESRS Sciences PAC R.MPOO
<DFO.RPACScienceSTARQAM-MQEESRSSciencesPACR.MPOO@dfo-mpo.gc.ca>,
DFO.R PAC Science STAR GF / PF ESRS Sciences PAC R.MPO
<DFO.RPACScienceSTARGF-PFESRSSciencesPACR.MPO@dfo-mpo.gc.ca>
Subject: FW: Procurement HUB deadline: Nov 30, 2018

REMINDER: All requirements for contracting with a targeted delivery prior to March 31, 2019 should be submitted to the Procurement Hub no later than November 30, 2018.

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Depending on the duration of the services required or delivery time for goods required, an earlier submission date may be prudent.

FYI and distribution as necessary to program managers and staff that will be procuring goods and services (with a March 31, 2019 delivery date) via the DFO HUB.

http://intra.dfo-mpo.gc.ca/loop-courant/nat/2018/20181026/20181026_07_e.htm

Regards,

Melody Haaland

Administrative Assistant, Science Branch / Pacific Region - Stock Assessment & Research
Division (StAR)
Fisheries and Oceans Canada / Government of Canada
melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071

From: Volk, Judy
Sent: November-13-18 8:15 AM
To: Luch, Gloria; Haaland, Melody
Subject: FW: Procurement HUB deadline, Nov 30, 2018

FYI.....I already sent out a reminder a few weeks ago.....

Judy Volk
Branch Coordinator
Stock Assessment and Research Division (StAR)
Pacific Biological Station
voice: (250) 756-7047 facsimile/telecopier (250) 756-7053
e-mail: judy.volk@dfo-mpo.gc.ca

From: Dhillon, Reet
Sent: November-09-18 1:14 PM
To: XPAC SC ADMIN OFFICERS
Subject: Procurement HUB deadline, Nov 30, 2018

FYI and distribution as necessary to program managers and staff that will be procuring goods and services (with a March 31, 2019 delivery date) via the DFO HUB.

http://intra.dfo-mpo.gc.ca/loop-courant/nat/2018/20181026/20181026_07_e.htm

Reet Dhillon

Business Services Manager, Science Branch, Pacific Region
Tel / Tél: 250.363.6715
Fax / Télécopieur: 250.363.6310

s.16(2)(c)

Brown, Laura (Pacific)

From: Rusch, Bryan
Sent: 2018–November-20 12:45 PM
To: Goruk, Andrea; Brown, Laura (Pacific)
Subject: FW: Funding and Coding - SoG Management Platform

Info regarding funding for the Herring management platform which relating to the question I posed yesterday. Not sure how contracting will work without confirmed funding but will follow up with Brenda and see how we have done this in the past.

Bryan

From: Spence, Brenda
Sent: Tuesday, November 20, 2018 11:05 AM
To: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Cc: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>
Subject: Re: Funding and Coding - SoG Management Platform

Hi Amber,

The budget is Andy Thompson's, and we don't typically get approval and coding until later in the fiscal year planning cycle once they have finished 8 month review. At my last bilat with Neil Davis I flagged this with him and he is following up with Andy.

B

From: Neuman, Amber
Sent: Tuesday, November 20, 2018 10:55 AM
To: Spence, Brenda
Cc: Rusch, Bryan
Subject: Funding and Coding - SoG Management Platform

Hi Brenda,

Just following-up to see if you've received confirmation of funding and coding for the SOG management platform? Bryan confirmed yesterday that we would be sticking with the Canadian Shore contract this year. Once funding is confirmed, Jaclyn has asked for financial coding to proceed.

Thanks,

Amber Neuman

Resource Manager – Herring

South Coast Area, Resource Management Branch, Pacific Region

Fisheries and Oceans Canada | Government of Canada

Amber.Neuman@dfo-mpo.gc.ca | Tel: (250) 756-7246 | Cell: (250) [REDACTED]

Gestionnaire des Pêches - Hareng

Secteur de la Côte Sud, Gestion des ressources, Région Pacifique

Pêches et Océans Canada | Gouvernement du Canada

Amber.Neuman@dfo-mpo.gc.ca | Tél : (250) 756-7246 | Tél cell. : (250) [REDACTED]

Brown, Laura (Pacific)

From: Rusch, Bryan
Sent: 2019-January-15 1:03 PM
To: Cleary, Jaclyn
Cc: Conley, Kevin; Spencer, Kent; Kelly, Gerry; Brown, Laura (Pacific); Spence, Michael
Subject: RE: WCVI Herring Contracts

Ok. It sounds like this is moving along and that we don't need to worry about contract paperwork or funds as it is already being taken care of. We should have a quick discussion next week when you get back to the office to confirm everything is on track.

Thanks,

Bryan

From: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>
Sent: Tuesday, January 15, 2019 12:00 PM
To: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>
Cc: Conley, Kevin <Kevin.Conley@dfo-mpo.gc.ca>; Spencer, Kent <Kent.Spencer@dfo-mpo.gc.ca>; Kelly, Gerry <Gerry.Kelly@dfo-mpo.gc.ca>; Brown, Laura (Pacific) <Laura.L.Brown@dfo-mpo.gc.ca>; Spence, Michael <Michael.Spence@dfo-mpo.gc.ca>
Subject: Re: WCVI Herring Contracts


Hi Bryan,

I have 15K O&M JV'd from AFS RHQ, and additional science funds to support this work. I'm working on drafting the contract paperwork with Jim and will send a follow up email once this step is complete.

Cheers,
Jaclyn

Jaclyn Cleary

Program Head- Pacific Herring
Quantitative Assessment Methods Section (QAMS)
Stock Assessment and Research Division, Science
Fisheries and Oceans Canada, Government of Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tel: 250-

Section de méthode d'évaluation quantitatif (SMEQ)
Division de l'évaluation des stocks et de la recherche, Science
Pêches et océans Canada, Gouvernement du Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tél: 250-

On Jan 15, 2019, at 11:51 AM, Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca> wrote:

I'm not clear where we are on funding for the WCVI First Nations herring work that we have done over the past several years. In late 2018, I believe 15K was re-profiled and has been proved via some method (contract or AFS amendment) to the NTC. Not sure exactly what project these funds have been earmarked for but something herring I believe.

To run a program similar to last year, we are short roughly 26K. My budget has no funds that can be contributed based on the last budget review. Are there any other funding sources available for this program this year? If there are funds available somewhere we will need to get this moving fairly quickly as we are a little over a month to when these activities would be starting. If no funds, then we should also relay the message that this work is not proceeding this year.

Thoughts?

Thanks,

Bryan Rusch
Phone: (250) 756-7294

From: Hall, Peter <Peter.Hall@dfo-mpo.gc.ca>
Sent: Tuesday, January 15, 2019 10:04 AM
To: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Spence, Michael <Michael.Spence@dfo-mpo.gc.ca>
Subject: WCVI Herring Contracts

Last year we had \$40,800 O&M funding for the herring contracts:

<image001.png>

All of the contract info and documents can be found here:

\\dconkenna01b\port alberni public\$\1FISHERIES MANAGEMENT
FOLDERS\HERRING\2019 Herring\FN Charters

Peter Hall
Recovery Planner – Species at Risk Program
Fisheries and Oceans Canada
4706 Tebo Avenue
Port Alberni, BC V9Y 8B1
250-720-4445
peter.hall@dfo-mpo.gc.ca

Brown, Laura (Pacific)

From: Rusch, Bryan
Sent: 2019-February-07 10:20 AM
To: Brown, Laura (Pacific)
Cc: Luedke, Wilf
Subject: Herring Overflights

Hello Laura,

Just a quick email to confirm that I have found a willing person to help us with the Strait of Georgia spawn flights this coming season. Stu Pearce from the Stock Assessment group has agreed and is looking forward to helping us out this year for the up to three week period that we will need him to coordinate the flight program as the point person. The rough time frame for this will be from late February through to about the middle of March.

As we discussed at our meeting last week, any overtime that Stu may accumulate doing the flights will be paid out and Wilf is also looking for salary dollars to cover off the time frame that Stu will be helping us out.

I talked to Stu briefly this morning but will be going over the details of the flight program with him tomorrow. I'm off to a herring MSE meeting with the South Island First Nations shortly and for the rest of today, but will be in the office all day tomorrow if we need to discuss.

Thanks,

Bryan Rusch
Phone: (250) 756-7294



Fisheries and Oceans
Canada

Pêches et Océans
Canada

Purchasing Office - Bureau des achats:

Procurement Hub | Centre d'approvisionnement
Fisheries and Oceans Canada | Pêches et
Océans Canada
301 Bishop Drive | 301 promenade Bishop
Fredericton, NB E3C 2M6

Email - courriel: Kimberly.Walker@dfo-mpo.gc.ca

CONTRACT – CONTRAT

Your proposal is accepted to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the supplies and/or services listed herein and on any attached sheets at the price or prices set out therefore.

Nous acceptons votre proposition de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans les présentes, et aux annexes ci-jointes, les articles et/ou les services énumérés dans les présentes, et sur toute feuille ci-annexée, au(x) prix indiqué(s).

X 
For the Contractor-Pour le fournisseur

Herring Conservation & Research Society
101-5170 Dunster Road
Box 403
Nanaimo, BC
V9T 6M4
Attn: Greg Thomas
250-741-6759
greg.thomas@shaw.ca

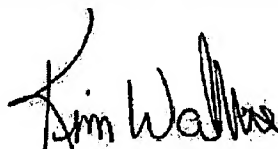
Title – Sujet Pacific Herring Survey off the British Columbia Coast		Date February 1, 2018
Client Reference No. - No. de référence du client F1693-170012		
Contract No. - N° du contrat F5211-180018		
Financial Codes - Codes financiers 51880-810-120-4101-52101-6		
F.O.B. - F.A.B. see herein-ci-inclus	GST - TPS see herein-ci-inclus	Duty - Droits see herein-ci-inclus
Destination of Goods and Services: Destinations des biens et services: see herein-ci-inclus		
Invoices - Original and two copies to be sent to: Factures - Envoyer l'original et deux copies: DFO.invoicing-facturation.MPO@canada.ca		
Address Inquiries to: - Adresser toute demande de renseignements : Kimberly Walker Email - Courriel: Kimberly.Walker@dfo-mpo.gc.ca		
Telephone No. – No. de téléphone 506-452-3624		Fax: 506-452-3676
Total Estimated Cost - Coût total estimatif \$ NOT to Exceed \$1,359,000.00 (GST/HST excluded)		Currency - Devise CAD
For the Minister - Pour le Ministre  Digitally signed by Walker, Kimberly DN: c=CA, o=GC, ou=DFO-MPO, cn=Walker, Kimberly Date: 2018.02.02 16:40:36 -04'00'		



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PART 6 - RESULTING CONTRACT CLAUSES

6.1 Security Requirements

- 6.1.1 There is no security requirement applicable to the Contract.

6.2 Statement of Work

The Contractor must perform the Work in accordance with the Statement of Work at Annex "A".

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Revision to Departmental Name: As this contract is issued by Fisheries and Oceans Canada (DFO), any reference to Public Works and Government Services Canada or PWGSC or its Minister contained in any term, condition or clause of this contract, including any individual SACC clauses incorporated by reference, will be interpreted as reference to DFO or its Minister.

6.3.1 General Conditions

2010C (2016-04-04), General Conditions - Services (Medium Complexity) apply to and form part of the Contract.

Section 27 – Integrity Provisions – Contract of 2010C referenced above is amended as follows:

Delete section 27 in its entirety.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the contract is from contract award, February 1, 2018 to November 30, 2018.

6.4.2 Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to one (1) additional one (1) year period under the same conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.



Canada may exercise this option at any time by sending a written notice to the Contractor at least 15 calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Kimberly Walker
Title: Senior Contracting Officer
Department: Fisheries and Oceans Canada
Directorate: Materiel and Procurement Services
Address: 301 Bishop Drive, Fredericton, NB E3C 2M6
E-mail address: DFOtenders-soumissionsMPO@dfo-mpo.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.5.2 Project Authority

The Project Authority for the Contract is:

Jaclyn Cleary
Program Head- Pacific Herring
Quantitative Assessment Methods Section (QAMS)
Aquatic Resources, Research, and Assessment Division (ARRAD), Science
Fisheries and Oceans Canada, Government of Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca
Tel: 250-756-7321

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.



6.5.3 Contractor's Representative

Herring Conservation & Research Society
101-5170 Dunster Road
Box 403
Nanaimo, BC
V9T 6M4
Attn: Greg Thomas
250-741-6759
greg.thomas@shaw.ca

6.6 Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a Public Service Superannuation Act (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with Contracting Policy Notice: 2012-2 of the Treasury Board Secretariat of Canada.

6.7 Payment

6.7.1 Basis of Payment

6.7.1.1 In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price for An Amount NOT to Exceed \$1,359,000.00 (GST/HST excluded).

6.7.1.2 All prices and amounts of money in the Contract are exclusive of the Goods and Services Tax (GST) or Harmonized Sales Tax (HST), whichever is applicable, unless otherwise indicated. GST or HST, to the extent applicable, will be incorporated into all invoices and progress claims for goods supplied or work performed and will be paid by Her Majesty. The Contractor agrees to remit to Canada Revenue Agency any GST or HST paid or due.

6.7.1.3 Any payment by Her Majesty under this contract is subject to there being an appropriation for the fiscal year in which the payment is to be made.

6.7.2 Limitation of Price

SACC Manual clause C6000C (2017-08-17) Limitation of Price



6.7.3 Monthly Payment

Canada will pay the Contractor on a monthly basis for work performed during the month covered by the invoice in accordance with the payment provisions of the Contract if:

- b. an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- c. all such documents have been verified by Canada;
- d. the Work performed has been accepted by Canada.

6.8 Invoicing Instructions

6.8.1 Payments will be made provided that:

6.8.1.1 The invoice(s) must be emailed to DFO Accounts Payable, at the email address indicated below:

Email: DFO.invoicing-facturation.MPO@canada.ca

6.8.1.2 The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

6.9 Certifications

6.9.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.9.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "[FCP Limited Eligibility to Bid](#)" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.



6.10 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in **the province or territory where the goods and/or services are to be rendered.**

6.11 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the general conditions 2010C (2016-04-04), General Conditions - Services (Medium Complexity);
- (c) Annex A, Statement of Work;
- (d) Annex B, Basis of Payment;
- (e) Annex C, Insurance Conditions;
- (f) Annex D, Additional Vessel Charter Contract Conditions;
- (g) Annex E, Federal Contractors Program for Employment Equity - Certification;
- (h) Annex F, Vessel Templates For all Survey Activities

6.12 Procurement Ombudsman

6.12.1 The Contractor confirms that it has read the Code of Conduct for Procurement and agrees to be bound by its terms.

6.12.2 The office of the Procurement Ombudsman (OPO) was established by the Government of Canada to provide an independent avenue for suppliers to raise complaints regarding the award of contracts under \$25,000.00 for Goods and under \$100,000.00 for Services. You have the option of raising issues or concerns regarding the solicitation, or the award resulting from it, with the OPO by contacting them by telephone at 1-866-734-5169 or by e-mail at opo-boa@opo-boa.gc.ca. You can also obtain more information on OPO services available to you on their website at www.opo-boa.gc.ca.

6.12.3 For further information, the Contractor may refer to the following PWGSC site:

<http://www.tpsgc-pwgsc.gc.ca/app-acc/cndt-cndct/contexte-context-eng.html>



6.13 Insurance – Specific Requirements G1001C (2013-11-06)

The Contractor must comply with the insurance requirements specified in Annexes C and D. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. For Canadian-based Contractors, coverage must be placed with an Insurer licensed to carry out business in Canada, however, for Foreign-based Contractors, coverage must be placed with an Insurer with an A.M. Best Rating no less than "A-". The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

6.14 SACC Manual Clauses

SACC Manual clause A9141C (2008-05-12) Vessel Condition
SACC Manual clause G5003C (2014-06-26) Marine Liability Insurance

6.15 Licensing

The Contractor must obtain and maintain all permits, licenses and certificates of approval required for the Work to be performed under any applicable federal, provincial or municipal legislation. The Contractor is responsible for any charges imposed by such legislation or regulations. Upon request, the Contractor must provide a copy of any such permit, license or certificate to Canada.



ANNEX "A" STATEMENT OF WORK

1.0 Scope

1.1 Title

Pacific Herring Survey off the British Columbia Coast

1.2 Contracting Period

Contract Award through to November 30, 2018 with the possibility of one (1) additional option year, at the discretion of Fisheries and Oceans Canada

Option year if exercised will be December 1, 2018 through to November 30, 2019.

Project work to take place between January and May including option year if exercised

1.3 Introduction

Department of Fisheries and Oceans (DFO) Canada intends to conduct a data collection program for Pacific Herring (*Clupea pallasii*) covering the five major and two minor assessment regions on the British Columbia coast.

1.4 Estimated Value

The total value of any contract emanating from this RFP shall not exceed \$1,359,000.00 in 2018 and \$1,386,200 in 2019 (excluding applicable taxes), and must include all survey costs associated with vessel, crew, transportation, fuel, travel, living expenses, and research activities.

1.5 Objectives of the Requirement

Two objectives for the Pacific Herring Survey program are as follows:

Objective #1 is to measure herring spawn deposition (eggs) through SCUBA dive surveys or surface surveys (as described below) in some or all (as needed) of the five major stock assessment regions (Haida Gwaii, Prince Rupert District, Central Coast, Strait of Georgia and the West Coast of Vancouver Island) and two minor regions (Area 2W and Area 27);

Objective #2 is to obtain biological samples from pre-spawning aggregations of Pacific Herring using purse seine vessels in some or all (as needed) of the following major stock assessment regions: Haida Gwaii, Prince Rupert District, Central Coast, Strait of Georgia and the West Coast of Vancouver Island, and minor region Area 2W. DFO Science uses data from these programs in the annual stock assessment process for Pacific Herring.



1.6 Background, Assumptions and Specific Scope of the Requirement

DFO Science assesses British Columbia Pacific Herring stocks annually. Stock assessment uses an age-structured assessment model requiring annual updates of proportions at age, weight at age, and spawn survey data. Data collected through the Pacific Herring Survey Program, described in this Statement of Work are used by stock assessment scientists to assess the biomass of herring stocks, and provide annual biomass forecasts to Fisheries Management, information which is then used in the annual Integrated Fisheries Management Plan process for BC Pacific Herring.

2.0 Requirements

The Contractor shall carry out the Pacific Herring stock assessment survey to conduct assessments of herring egg deposition and obtain biological samples on (up to, as needed) all spawning grounds in support of stock assessment.

The dive and surface surveys of herring spawn will be conducted in the areas indicated in List of Activities – Part A and the collection of biological samples from pre-spawning aggregations of Pacific Herring stocks will be conducted in the areas indicated in List of Activities – Part A.

2.1 Tasks, Activities, Deliverables and Milestones

List of Activities

Part A:

Conduct a dive spawn survey of Pacific Herring stocks in some or all (as needed) of five major assessment regions: 1) Haida Gwaii, 2) Prince Rupert District, 3) Central Coast, 4) Strait of Georgia, and 5) west coast of Vancouver Island; as well as 6) West Coast Vancouver Island Area 27 (minor stock area). Dive spawn surveys are to be conducted according to DFO survey protocol. A surface survey is to be conducted in Haida Gwaii minor stock Area 2W, following DFO survey protocol. Dive and surface survey protocols are available by request from the Contracting Officer.

Contractor will enter all information gathered and collected in to a database using DFO supplied software and return all hard copy information to Project Authority prior to payment being issued.

Part B:

Collect biological samples from pre-spawning aggregations of Pacific Herring stocks in some or all (as needed) of the following areas: 1) Haida Gwaii (including Area 2W), 2) Prince Rupert District, 3) Central Coast, 4) Strait of Georgia, and 5) west coast of Vancouver Island. Surveys will be conducted following standardized sample collection protocols as described by the 2015 Sampling Guidelines, available by request from the Contracting Officer.



Surveys to be performed in the following areas:

1 Haida Gwaii (HG) and Area 2W

- a) One dive survey vessel to conduct dive spawn assessments for an 18-day period in HG, as directed by the Fisheries Manager.
- b) One surface survey vessel to conduct surface spawn assessments for a 6-day period in Area 2W with a flexible start date of March 25th, 2018 to April 5th, 2018 as directed by the Fisheries Manager.
- c) One spawn reconnaissance vessel survey to scout for herring spawn for a 19-day period in HG.
- d) One seine test vessel to conduct biological sampling for a 25-day period primarily in HG, but also in Area 2W as directed by the Fisheries Manager.

Survey durations for (a), (b), and (d) may require stand-down days and extensions, upon request by the Fisheries Manager. Contractors will not be paid for stand-down days.

2 Prince Rupert District (PRD)

- a) One dive survey vessel to conduct dive spawn assessments for a 20-day period, as directed by the Fisheries Manager
- b) One seine test vessel to conduct biological sampling for a 13-day period primarily in Areas 3 / 4 (Big Bay area)
- c) One seine test vessel to conduct biological sampling for a 13-day period Area 5 (Kitkatla area)

Survey durations for (a), (b), and (c) may require stand-down days and extensions, upon request by the Fisheries Manager. Contractors will not be paid for stand-down days.

3 Central Coast (CC)

- a) One dive survey vessel to conduct dive spawn assessments for a 21-day period, as directed by the Fisheries Manager.
- b) One dive survey vessel to conduct dive spawn assessments for a 12-day period, as directed by the Fisheries Manager. This vessel will commence in the Central Coast after completing survey activities in the Strait of Georgia (split charter).
- c) One seine test vessel to conduct biological sampling for a 10-day period in the Central Coast, as directed by the Fisheries Manager.



Survey durations for (a) and (b) may require stand-down days and extensions, upon request by the Fisheries Manager. Survey (c) may require extensions. Contractors will not be paid for stand-down days.

4 Strait of Georgia (SOG)

- a) One dive survey vessel to conduct dive spawn assessment for a 21-day period, as directed by the Fisheries Manager.
- b) One dive survey vessel to conduct dive spawn assessments for a 12-day period, as directed by the Fisheries Manager. Upon completing survey activities in the Strait of Georgia, this charter will move to the Central Coast (split charter).
- c) One seine test vessel to conduct biological sampling for a 27-day period in the Strait of Georgia, as directed by the Fisheries Manager.
- d) One vessel to sound and assess herring stocks, and provide management support to on-grounds fishery managers for a 15-day period.

Survey durations for (a), (b), (c) and (d) may require stand-down days and extensions, upon request by the Fisheries Manager. Contractors will not be paid for stand-down days.

5 West Coast of Vancouver Island (WCVI)

- a) One single crew dive survey vessel to conduct dive spawn assessments for a 15-day period, as directed by the Fisheries Manager.
- b) One seine test vessel to conduct biological sampling for a 20-day period on the west coast Vancouver Island, as directed by the Fisheries Manager.

Survey durations for (a) and (b) may require stand-down days and extensions, upon request by the Fisheries Manager. Contractors will not be paid for stand-down days.

6 Strait of Georgia/WCVI/Area 27 - Shore based dive survey

A mobile shore-based dive survey vessel to conduct dive spawn assessment will be required for a 15 day period to be deployed in the Strait of Georgia, WCVI and Area 27, as directed by the Fisheries Manager.



Survey durations may require stand-down days and extensions, upon request by the Fisheries Manager. Contractors will not be paid for stand-down days.

Requirements Regarding Vessels, Divers and Equipment:

The Contractor must obtain and maintain all permits, licenses and certificates of approval required for the Work to be performed under any applicable federal, provincial or municipal legislation. The Contractor is responsible for any charges imposed by such legislation or regulations. Upon request, the Contractor must provide a copy of any such permit, license or certificate to Canada.

The program is to be conducted by vessels capable of conducting survey activities as outlined in this statement of work. Survey vessel(s) are to be adequate for the required work and be capable of conducting all activities, as well as accommodating one DFO staff as needed.

Proposals must include a completed vessel template for each survey activity, as identified in the Evaluation Criteria. The templates can be found in Annex F - VESSEL TEMPLATES FOR ALL SURVEY ACTIVITIES of this solicitation.

Dive Charter Vessels (all areas)

- All dive charters are to supply primary vessels capable of providing living accommodation for up to seven personnel. A full crew complement is required: a minimum of vessel master (skipper), engineer, cook, and 4 Canadian Standards Association (CSA) Occupational SCUBA certified divers.
- All vessels must conform fully to Transport Canada safety requirements, must meet all regulatory requirements, and must be in excellent overall condition. The Contractor will ensure all vessels carry full marine and liability insurance for all crew, skipper, and any DFO staff onboard, prior to commencing survey work and for the duration of all contract activities.
- Dive survey vessels will each supply 4 CSA certified divers, with valid Occupational SCUBA tickets. Each dive survey vessel will supply a compressor (with valid annual air test), Scuba tanks, and two dive tending vessels to support divers during the course of survey activities. All diving activity will conform to Worksafe BC Occupational Health and Safety Regulations (OHSR) Part 24.
 - A single dive survey crew (2 divers) is requested for the WCVI dive survey vessel
- Vessels must carry enough medical oxygen to provide a continuous supply during medical evacuation. An "M"/ 625 litre cylinder or greater is recommended.



- Dive charter vessels will carry Level 1 First Aid Kits at all times
- Vessels are to carry survival suits for each of the crew, including the skipper, plus one DFO person.
- Vessels are to carry a life raft certified capacity for the crew, including the skipper, and one DFO person.
- Vessel are to be capable of making open water passages, and to perform duties in exposed areas of the coast in winter conditions.
- Charter vessels will provide sufficient deck space to load and unload and store dive equipment when not in use. To minimize chance of hypothermia, an enclosed changing area for divers is required. This may be a ladder into the hold, easy access to engine room (while wearing dry suits), or an enclosed area on deck.
- Charter vessels will provide an adequate fresh water supply to provide daily showers for divers, and facilities on deck to rinse dive gear at end of day's operations.
- Charter vessels will provide a computer with Windows XP or higher operating system installed, and a minimum of 512 MB of computer memory, to run the data entry program.
- Charter vessels in HG and Area 2W are to carry a satellite phone (Global Star preferred)
- Each dive charter spawn assessment vessel will provide two dive tending vessels. Required safety equipment will follow Transport Canada small vessel requirements. The tender vessels will carry field oxygen (E or D cylinders) and Level I first aid kits during diving operations. A throw line to assist recovering divers is required. Vessels greater than 6 m in length will carry an Emergency Position Indicating Radio Beacon (EPIRB).
- Exception: WCVI requires a single tending vessel

Surface Survey Charter Vessels (Area 2W)



- All vessels must conform fully to Transport Canada safety requirements, must meet all regulatory requirements, and must be in excellent overall condition. The Contractor will ensure all vessels carry full marine and liability insurance for all crew, skipper, and any DFO staff onboard, prior to commencing survey work and for the duration of all contract activities.
- Surface survey charter vessel will include a minimum crew of 3: skipper, cook/deckhand, and 1 surface survey personnel.
- Vessels are to provide survival suits for each crew, including the skipper, plus one DFO person.
- Vessels are to carry a life raft certified capacity for the crew, including the skipper, and one DFO person.
- Vessel are to be capable of making open water passages, and to perform duties in exposed areas of the coast in winter conditions.
- Surface survey charter vessels will provide 1 tending vessel with required safety equipment following Transport Canada small vessel requirements. The tending vessel should be capable of navigating in shallow water, close to exposed rocky shore and carry a minimum of 3 people.
- Charter vessels in HG and Area 2W are to carry a satellite phone (Global Star preferred).
- Charter vessels must have Level I first aid kits, and a throw line to assist recovering swimmers. Vessels greater than 6 m in length will carry an Emergency Position Indicating Radio Beacon (EPIRB).

Shore-based Charter Vessels (WCVI/ SOG and Area 27 only)

- Shore-based dive survey vessels must supply three persons, of which 2 are CSA certified divers with valid Occupational Scuba tickets and one is a vessel operator. The dive vessel will be of sufficient size and seaworthiness to accommodate two divers, gear, and the vessel operator. The vessel will be on a trailer and capable of being towed into remote locations, and have a speed of no less than (20 Knots).



- All vessels must conform fully to Transport Canada safety requirements, must meet all regulatory requirements, and must be in excellent overall condition. The Contractor will ensure all vessels carry full marine and liability insurance for all crew, skipper, and any DFO staff onboard, prior to commencing survey work and for the duration of all contract activities.
- Required safety equipment will follow Transport Canada small vessel requirements. The tender vessel will carry field oxygen (E or D cylinders) and Level I first aid kits during diving operations. A throw line to assist recovering divers is required. Vessels greater than 6 m in length must have an Emergency Position Indicating Radio Beacon (EPIRB).

Spawn Reconnaissance Vessel (Haida Gwaii major stock area only)

- Reconnaissance vessel for Haida Gwaii will supply the following information to the DFO manager on a daily basis: record of vessel activities and movement during the day and estimate and location of amount of fish and spawning observed.
- The dive requirements do not apply.

Seine charter vessels (HG, PRD, CC, SOG, WCVI)

- All seine charters vessel provide living accommodation for crew, skipper, engineer, cook, and one DFO personnel.
- All seine vessels must conform fully to Transport Canada safety requirements, must meet all regulatory requirements, and must be in excellent overall condition. The Contractor will ensure all vessels carry full marine and liability insurance for all crew, skipper, and any DFO staff onboard, prior to commencing survey work and for the duration of all contract activities. Vessels must be certified for the crew, including the skipper and one additional person.
- Seine charter vessels will carry Level 1 First Aid Kits at all times.
- Vessels are to provide survival suits for all crew members plus one additional person. Vessels are to carry a life raft certified capacity for the crew, including the skipper, and one additional person.
- Vessels will be mechanically sound in all respects, seaworthy for fishing in the designated areas, and for performing duties in exposed areas of the coast in winter conditions.
- Vessels will have the capability to freeze and store biological samples for the duration of the test fishing operation.



- Vessels will accommodate additional sampling requests (e.g., live herring) on a per-request basis, as requested by DFO Science.
- Vessels will be fully equipped for herring seine fishing. A full herring seine is required.
 - Exception: SOG sounding and support vessel requires three crew and living accommodation for up to three DFO personnel.
- Seine charter vessels are required to be dedicated survey vessels. Commercial fishing activities are not to be combined with survey work, i.e., stand-down days will not be permitted for commercial fishing or packing during the survey.

2.2 Specifications and Standards

Works are to be delivered primarily through the contractors own review and expertise, with correspondence and cooperation with Fisheries and Oceans staff as necessary. Interaction between the Project Authority and the successful contractor may include, but not be limited to telephone correspondence, email correspondence, and meetings. Fisheries and Oceans Canada will deem works complete upon submission and acceptance of final deliverables.

2.3 Technical, Operational and Organizational Environment

The successful contractor will be responsible for providing their own technical requirements. The context of this statement refers to the contractor's ability to meet the criteria of this contract by using whatever tools and resources are required to complete their assessment, draw conclusions and formulate their recommendations to the Program.

The operational environment may include, but may not be limited to, the geographic area of interest and its surrounding areas, any work or meeting place where the assessment, recommendations, and review of documents is discussed.

Seine test and dive charter vessels will provide the following equipment:

- Two echo sounders, one of which must be a colour video;
- Colour sonar with a complete backup sonar;
- Two radars;
- Autotel, satellite or cellular phone (in areas where there is cell phone coverage);
- Chart Plotter;
- Radio communication equipment including VHF and SSB;
- Satellite phone for HG and Area 2W (Global Star preferred);
- Computer with a minimum Microsoft Windows XP or higher operating system installed and a minimum of 512 MB of memory (dive charter only).



2.4 Method and Source of Acceptance

Works will be classified acceptable provided the successful contractor articulates and presents results of the survey through: the dive survey data sheets and spawn data entry program detailing the spawn survey activities, provides details of test fishery activities, and provides biological samples to the Project Authority.

All deliverables and services rendered under this Contract are subject to inspection by the DFO Project Authority. The DFO Project Authority shall have the right to reject any deliverables that are not considered satisfactory, or require their correction before payment will be authorized.

2.5 Reporting Requirements

Reporting requirements includes the daily updates and progress update teleconferences.

2.6 Project Management Control Procedures

A kick-off meeting or teleconferences will be carried out shortly after awarding the contract to the successful contractor. Contract progress update teleconferences will be carried out, at minimum one time, and will be held to measure performance of all identified tasks and milestones as described in 2.1. The contract will be managed by the project coordinator.

2.7 Change Management Procedures

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority; however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

2.8 Ownership of Intellectual Property

The Crown will retain ownership of the Intellectual Property emanating from this requirement under the exception 6.4.1 (see below) where statutes, regulations, or prior obligations of the Crown to a third party or parties preclude Contractor ownership of the Foreground.

6.4.1 – Information for Public Dissemination.

The Department of Fisheries and Oceans has determined that any intellectual property arising from the performance of the Work under the contract will belong to Canada as the main purpose of the contract is to generate knowledge and information for public dissemination.



Exception 6.5 – Copyright

The Department of Fisheries and Oceans has determined that any intellectual property rights arising from the performance of the Work under the Contract will belong to Canada, as it consists of copyright, which does not correspond to computer software or to any documentation pertaining to that software.

3.0 Other Terms and Conditions of the SOW

3.1 DFO Obligations

Fisheries and Oceans Canada will provide the following:

1. the survey design and scientific guidance in the execution of the survey.
2. "Herring Spawn Survey Manual 2017" and "2015 Sampling Guidelines".
3. DFO project authority to check and verify all certifications submitted by SCUBA divers participating in the survey (CSA Occupational SCUBA certificates, valid dive medical clearance and valid first aid/ CPR) prior to each survey.
4. DFO scientific staff to provide on grounds audits of the performance of the dive survey teams in each area (at the request of DFO Project Authority), and ensure the survey is conducted in accordance with standard survey protocol.
5. DFO Fisheries Manager and Project Authority will be available for communication with survey teams to discuss survey activities as needed in each of the areas.
6. DFO will provide equipment required for dive surveys: log sheets, lead lines, quadrats, diver floats, transect maps for each area; computer program for data entry.
7. Validation of all survey data (both electronic and paper) collected, and storage of all dive data in survey database. Archival of all data collected.
8. Monitoring of survey program activities to ensure they are being implemented according to the agreed upon standards and criteria.

3.2 Contractor's Obligations

- The Contractor will provide the charter vessels and crews (including divers, as described in this statement of work);
- The Contractor will provide evidence of WCB and P&I Marine Liability Insurance for all personnel and resources associated with the Contract Work within 14 day of contract award.
- The Contractor will provide a Program Manager to coordinate the survey and provide summary reports to DFO;
- The Contractor will provide daily updates on spawn survey activities and test fishery activities to DFO Fisheries Managers;
- The Contractor will complete data sheets for all dive survey activities;
- The Contractor will transfer all dive survey information from data sheets into a database, using software supplied by the DFO;
- The Contractor will return all of the following to the department; completed dive survey data sheets;



- all dive survey gear;
- all dive briefcases;
- all test fishery gear;
- all biological samples;
- completed log books.

3.3 Location of Work, Work site and Delivery Point

Due to existing workload and deadlines, all personnel assigned to any contract resulting from this RFP must be ready to work in close and frequent communication with the Departmental Representative and other departmental personnel.

3.4 Language of Work

The work will be carried out in English. The Contractor must be fluent in English. Fluent is defined as Written, Verbal, and Comprehension at an advance level. Please see below legend.

Legend	Oral	Comprehension	Written
Basic	A person speaking at this level can: <ul style="list-style-type: none">• ask and answer simple questions;• give simple instructions; and,• give uncomplicated directions relating to routine work situations.	A person reading at this level can: <ul style="list-style-type: none">• fully understand very simple texts; grasp the main idea of texts about familiar topics; and,• read and understand elementary points of information such as dates, numbers, or names from relatively more complex texts to perform routine job-related tasks.	A person writing at this level can: <ul style="list-style-type: none">• write isolated words, phrases, simple statements or questions on very familiar topics using words of time, place or person.
Intermediate	A person speaking at this level can: <ul style="list-style-type: none">• sustain a conversation on concrete topics; report on action taken;• give straightforward instructions to employees; and,• provide factual descriptions and explanations.	A person reading at this level can: <ul style="list-style-type: none">• grasp the main idea of most work-related texts;• identify specific details; and,• distinguish main from subsidiary ideas.	A person writing at this level can: <ul style="list-style-type: none">• deal with explicit information on work-related topics since they have sufficient mastery of grammar and vocabulary.
Advanced	A person speaking at this level can: <ul style="list-style-type: none">• support opinions, and	A person reading at this level can: <ul style="list-style-type: none">• understand most complicated details, inferences and fine	A person writing at this level can: <ul style="list-style-type: none">• write texts where ideas are developed and presented in a



	understand and express hypothetical and conditioned ideas.	<ul style="list-style-type: none">• points of meaning; and, have a good comprehension of specialized or less familiar material.	coherent manner.
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3.5 Travel and Living

Travel and living expenses will not be covered under this contract.

3.6 Definitions

Fisheries Managers – Departmental representative in each survey area who keeps in touch daily with the survey vessel(s) in their area

Project Authority - Departmental representative in charge of the overall project who keeps in touch with both the Fisheries Manager and the Contractor 1 to 2 times a week.

4.0 Project Schedule

4.1 Expected Start and Completion Dates

The effective start date will be the date which the successful Contractor has been awarded the contract by DFO. The final deliverable(s) to be submitted to DFO on or before May 31, 2018, and May 31, 2019 for option year if exercised.

4.2 Schedule and Estimated Level of Effort (Work Breakdown Structure)

Jan 2018 – meeting between Contractor and DFO Project Authority; obtain copies of Herring Survey Manual and Dive Survey Manual from DFO; preparation of vessels for survey activities; collection of completed survey data sheets and survey equipment from DFO and distribution to each vessel.

Feb 15 – May 15, 2018 – coordination between DFO Project Authority, Contractor and Fisheries Managers to conduct survey activities in each area



s.20(1)(b)
s.20(1)(c)

ANNEX "B" BASIS OF PAYMENT

For the provision of all professional services, including all associated costs (including fuel) necessary to carry out the required work. The Contractor is requested to provide costs per area using the following pricing table, excluding GST/HST. Some Survey durations may require stand-down days and / or extensions, upon request by the Fisheries Manager.

Area	Activity	Approximate start date of survey	All-inclusive Fixed Rate Per Day	Estimated # of Days	Total (A x B)
Haida Gwaii	18-day dive charter	April 6, 2018	\$	18	
Haida Gwaii	19-day spawn reconnaissance charter in HG	April 1, 2018	\$	19	
Haida Gwaii (HG and 2W)	25-day seine test charter	March 9, 2018	\$	25	
Area 2W	6-day surface spawn charter in Area 2W	April 1, 2018	\$	6	
Prince Rupert	20-day dive charter	March 27, 2018	\$	20	
Prince Rupert (Big Bay)	13-day seine test charter	March 15, 2018	\$	13	
Prince Rupert (Kitkatla)	13-day seine test charter	March 15, 2018	\$	13	
Central Coast	21-day dive charter	April 8, 2018	\$	21	
Central Coast	10-day seine test charter	March 5, 2018	\$	10	
Strait of Georgia/ Central Coast	24-day dive charter (12 days SOG, 12 days CC)	March 13, 2018	\$	24	
Strait of Georgia	21-day dive charter	April 5, 2018	\$	21	
Strait of Georgia	27-day seine test charter	March 5, 2018	\$	27	
Strait of Georgia	15-day sounding charter	February 20, 2018	\$	15	

WCVI	15-day dive charter (single crew)	March 5, 2018	\$	15	
WCVI	20-day seine test charter	February 20, 2018	\$	20	
WCVI/ SOG/ Area 27	15-day shore based dive charter	February 20, 2018	\$	15	
				TOTAL	\$1,447,710

Initial year of contract award through to November 30, 2018

For An Amount NOT to Exceed \$1,359,000.00 (GST/HST excluded)

Note: If the total cost of the proposed program exceeds \$1,359,000.00 the contractor will cover the additional program costs. Not all surveys will be actioned in 2018. The activation of a survey will depend on the fish and budget.

For Evaluation Purposes the TOTAL (A x B) will be considered.

The prices quoted above include all expenses that may be incurred in providing the services, such as profit, overhead, administrative costs, equipment, materials and fuel.

Area	Activity	Approximate start date of survey	All-inclusive Fixed Rate Per Day	Estimated # of Days	Total (A x B)
Haida Gwaii	18-day dive charter	April 6, 2019	\$	18	
Haida Gwaii	19-day spawn reconnaissance charter in HG	April 1, 2019	\$	19	
Haida Gwaii (HG and 2W)	25-day seine test charter	March 9, 2019	\$	25	
Area 2W	6-day surface spawn charter in Area 2W	April 1, 2019	\$	6	
Prince Rupert	20-day dive charter	March 27, 2019	\$	20	
Prince Rupert (Big Bay)	13-day seine test charter	March 15, 2019	\$	13	



Prince Rupert (Kitkatla)	13-day seine test charter	March 15, 2019	\$	13	
Central Coast	21-day dive charter	April 8, 2019	\$	21	
Central Coast	10-day seine test charter	March 5, 2019	\$	10	
Strait of Georgia/ Central Coast	24-day dive charter (12 days SOG, 12 days CC)	March 13, 2019	\$	24	
Strait of Georgia	21-day dive charter	April 5, 2018			
Strait of Georgia	27-day seine test charter	March 5, 2019	\$	21	
Strait of Georgia	15-day sounding charter	February 20, 2019	\$	27	
WCVI	15-day dive charter (single crew)	February 25, 2018	\$	15	
WCVI	20-day seine test charter	March 5, 2019	\$	15	
WCVI/ SOG/ Area 27	15-day shore based dive charter	February 20, 2019	\$	20	
			\$	15	
				TOTAL	\$1,479,280

Option year of contract December 1, 2019 – November 30, 2019
For An Amount NOT to Exceed \$1,386,200.00 (GST/HST excluded)

Note: If the total cost of the proposed program exceeds \$1,386,200.00 the contractor will cover the additional program costs. Not all surveys will be actioned in 2019. The activation of a survey will depend on the fish and budget.

For Evaluation Purposes the TOTAL (A x B) will be considered.

The prices quoted above include all expenses that may be incurred in providing the services, such as profit, overhead, administrative costs, equipment, materials and fuel.



ANNEX "C" – INSURANCE CONDITIONS

1. The Contractor must obtain protection and indemnity insurance that must include excess collision liability and pollution liability. The insurance must be placed with a member of the International Group of Protection and Indemnity Associations or with a fixed market in an amount of not less than the limits determined by the Marine Liability Act, S.C. 2001, c. 6. Coverage must include crew liability, if it is not covered by Worker's Compensation as detailed in paragraph (2.) below.
2. The Contractor must obtain worker's compensation insurance covering all employees engaged in the Work in accordance with the statutory requirements of the territory or province or state of nationality, domicile, employment, having jurisdiction over such employees. If the Contractor is subject to an additional convention, as a result of an accident causing injury or death to an employee of the Contractor or subcontractor, or due to unsafe working conditions, then such levy or assessment must be paid by the Contractor at its sole cost.
3. The protection and indemnity insurance policy must include the following:
 - a. Additional insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada as additional insured should read as follows: Canada, represented by Public Works and Government Services Canada.
 - b. Waiver of subrogation rights: Contractor's Insurer to waive all rights of subrogation against Canada as represented by Fisheries and Oceans Canada and Public Works and Government Services Canada for any and all loss of or damage to the watercraft however caused.
 - c. Notice of cancellation: The insurer will endeavour to provide the Contracting Authority with a 30 calendar days prior written notice of cancellation.
 - d. Cross liability and separation of insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
 - e. Litigation rights: Pursuant to subsection 5(d) of the Department of Justice Act, R.S.C. 1985, c. J-2, s.1, if a suit is instituted for or against Canada which the Insurer would, but for this clause, have the right to pursue or defend on behalf of Canada as an Additional Named Insured under the insurance policy, the Insurer must promptly contact the Attorney General of Canada to agree on the legal strategies by sending a letter, by registered mail or by courier, with an acknowledgement of receipt.
For the province of Quebec, send to:



*Director Business Law Directorate,
Quebec Regional Office (Ottawa),
Department of Justice,
284 Wellington Street, Room SAT-6042,
Ottawa, Ontario, K1A 0H8*

For other provinces and territories, send to:

*Senior General Counsel,
Civil Litigation Section,
Department of Justice
234 Wellington Street, East Tower
Ottawa, Ontario K1A 0H8*

A copy of the letter must be sent to the Contracting Authority. Canada reserves the right to co-defend any action brought against Canada. All expenses incurred by Canada to co-defend such actions will be at Canada's expense. If Canada decides to co-defend any action brought against it, and Canada does not agree to a proposed settlement agreed to by the Contractor's insurer and the plaintiff(s) that would result in the settlement or dismissal of the action against Canada, then Canada will be responsible to the Contractor's insurer for any difference between the proposed settlement amount and the amount finally awarded or paid to the plaintiffs (inclusive of costs and interest) on behalf of Canada.



ANNEX "D" - ADDITIONAL VESSEL CHARTER CONTRACT CONDITIONS

1. The Contractor must keep and maintain the vessel, engines, gear and equipment in good and sufficient repair for the duration of the Contract and must pay for all necessary repairs, renewals and maintenance.
2. The Contractor must:
 - 2.1 indemnify and save harmless Canada from and against any claim for loss or damage to the vessel or any other property, engines, gear, or equipment, arising from the charter, and for injury or property of persons aboard the vessel, excepting any injury or damage to property of Canada's employees or agents;
 - 2.2 ensure that the operations are only carried out by Canada's authorized representatives as specified by the Project Authority;
 - 2.3 ensure that approved personal floatation devices for all persons on board are in readily accessible positions at all times;
 - 2.4 ensure that the use or possession of illegal drugs or alcohol is prohibited. If any member of the crew is found under the influence of such drugs and/or intoxicants while on duty, it will be cause for termination of the Contract for default.
3. If the vessel is disabled or is not in running order or is laid up without the consent of Canada, then Canada will not be liable for payment for the hire of the vessel during this period. If this period exceeds one week, Canada may terminate the Contract immediately for default.
4. If any gear or equipment necessary for the efficient operation of the vessel for the purpose of the Contract is not in good working order for any period of time, then the payment of hire will cease for the lost time, and if during the voyage the speed is reduced by a defect in or breakdown of any part of the hull, machinery or equipment, the time lost will be deducted from the hire. Canada will be the sole judge of the capability of the vessel.
5. If the vessel is unable to operate safely in the work area because of sea or weather conditions, as agreed to by the representative of the Contractor and the representative of Canada, then the charter for the day will be terminated and a pro-rated payment made to the Contractor for that period engaged in the Work in accordance with the terms of the Contract.
6. If the particulars furnished by the Contractor and set out in the Contract are incorrect or misleading, Canada may, at Canada's discretion, terminate the Contract for default.
7. If the vessel is lost or damaged to such an extent as to justify abandonment as for a constructive total loss, Her Majesty may terminate the Contract.
8. The Contractor, by these presents, does hereby remise, release and forever discharge Her Majesty and all employees of Her Majesty from all manners of action, claims or demands, of whatever kind or nature that the Contractor ever had, now has or can, shall or may hereafter have by reason of damage to or personal injury, or both as a result of or in any way arising out of the acts or omission of Her Majesty or employees of Her Majesty pursuant to the terms and conditions of the Agreement or any Contract.



9. The Contractor acknowledges and agrees that this Agreement or any Contract shall in no way replace, substitute or derogate from any of the rights powers if Her Majesty pursuant to the Fisheries Act of Canada or any other statute, law or regulation of Canada.
10. If a provision or term or condition of this Agreement or any Contract is wholly or partially invalid, this Agreement or Contract shall be interpreted as if the invalid provision, term or condition had not been a part of this Agreement or Contract.
11. The Contractor shall permit Her Majesty all access and egress that is request by Her Majesty to accomplish all inspections deemed necessary by Her Majesty to administer the terms and conditions of this Agreement or Contract.
12. The vessel shall not participate in a commercial fishery while under the terms and conditions of this Agreement or Contract.
13. Her Majesty will assume all costs for all fuel and lubricating oils required for propulsion lighting or heating. Fuel tanks must be proven full (e.g. dipped), upon commencement of Agreement or Contract.
14. The Contractor certifies that any price/rate shown herein has been computed in accordance with generally accepted accounting principles applicable to all like products or services sold by the Contractor, that such price / rate is not in excess of the lowest price / rate charged anyone else including their most favoured customer for like quality and quantity of the service, and does not include the provision for discount or commission to selling agents.



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ANNEX "F" – VESSEL TEMPLATES FOR ALL SURVEY ACTIVITIES

DIVE CHARTER – SHOREBASED only		
Applied for Location: WCVI/SOG/Area 27		
Vessel Name: Seaveyor		VRN: na
Skipper:		Years of Survey Experience:
Dive Supervisor:		Years of Survey Experience:
<u>Requirements: vessel</u>		Comments
Meet TC safety requirements	Yes/No and page # in application	
Excellent overall condition	yes, pg. 6	
Capable of nearshore/shallow work	yes, pg. 6	
Communication equipment suitable for area of work (satellite phone, Global star preferred, VHF, cellphone)	yes, pg. 6,7	
Vessel must be trailerable	yes, pg. 6	
<u>Requirements: divers</u>		Comments
(2) CSA/IMCB certified divers	Yes/No and page # in application	
Valid certified compressor	yes, pg. 6, 44	
Valid scuba tanks	yes, 6, 45	
Oxygen cylinder "E" or "D"	yes, pg. 6	
	yes, pg. 7	



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DIVE CHARTER – WCVI only		
Applied for Location:		
Vessel Name: <u>Enteprise V</u>		
Skipper: <u>[REDACTED]</u>		
Dive Supervisor: <u>[REDACTED]</u>		
VRN: <u>812915</u>		
Years of Survey Experience: <u>[REDACTED]</u>		
Years of Survey Experience: <u>[REDACTED]</u>		
Comments		
Yes/No and page # in application		
yes, pg. 4, 36		
yes, pg. 4, 36		
yes, pg. 5		
yes, pg. 5		
yes, pg. 4		
yes, pg. 5, 37		
yes, pg. 5		
yes, pg. 5, 36		
yes, pg. 5, 36		
yes, pg. 5, 36		
yes, pg. 5		
yes, pg. 5		
Comments		
Yes/No and page # in application		
yes, pg. 4, 35		
yes, 5		
yes, pg. 5		
yes, pg. 5, 37		
yes, pg. 5, 37		



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DIVE CHARTER			
Applied for Location: HG			
Vessel Name: Haida Spirit			VRN: 21815
Skipper:			Years of Survey Experience:
Dive Supervisor:			Years of Survey Experience:
<u>Requirements: vessel</u>			Comments
Accommodation for minimum (7) personnel		Yes/No and page # in application	
Meet TC safety requirements		yes, pg. 4, 16	
Excellent overall condition		yes, pg. 4	
Capable of open water passages		yes, pg. 5	
P&I Liability Insurance		yes, pg. 5	
Sufficient space for storage/drying dive gear		yes, pg. 4	
Adequate freshwater supply		yes, pg. 5, 17	
Communication equipment suitable for area of work (satellite phone, Global star preferred, VHF, cellphone)		yes, pg. 5	
Onboard operational equipment (ie. Radar, sounders, etc).		yes, pg. 5, 16	
Oxygen cylinder "M"/625 liter cylinder or greater		yes, pg. 5, 16	
		yes, pg. 5	
<u>Requirements: divers</u>		Yes/No and page # in application	Comments
(4) CSA/WCB certified divers		yes, 4, 15	
Valid certified compressor		yes, pg. 5	
Valid scuba tanks		yes, pg. 5	
(2) tending vessels that meet all TC small vessel regs.		yes, pg. 5, 17	
Oxygen cylinder "E" or "D" per tender		yes, pg. 5, 17	



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DIVE CHARTER		
Applied for Location:	PRD	
Vessel Name:	Royal Pride	VRN: 29518
Skipper:		Years of Survey Experience:
Dive Supervisor:		Years of Survey Experience:
Requirements: vessel		Comments
Accommodation for minimum (7) personnel	yes, pg. 4, 20	
Meet TC safety requirements	yes, pg. 4	
Excellent overall condition	yes, pg. 5	
Capable of open water passages	yes, pg. 5	
P&I Liability Insurance	yes, pg. 4	
Sufficient space for storage/drying dive gear	yes, pg. 5, 21	
Adequate freshwater supply	yes, pg. 5, 20	
Communication equipment suitable for area of work (satellite phone, Global star preferred, VHF, cellphone)	yes, pg. 5, 20	
Onboard operational equipment (ie. Radar, sounders, etc).	yes, pg. 5, 20	
Oxygen cylinder "M"/625 liter cylinder or greater	yes, pg. 5	
Requirements: divers		Comments
(4) CSA/WCB certified divers	yes, pg. 4, 19	
Valid certified compressor	yes, pg. 5	
Valid scuba tanks	yes, pg. 5	
(2) tending vessels that meet all TC small vessel regs.	yes, pg. 5, 21	
Oxygen cylinder "E" or "D" per tender	yes, pg. 5, 21	



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DIVE CHARTER		
Applied for Location:	Central Coast	
Vessel Name:	Pachena	VRN: 20352
Skipper:		Years of Survey Experience:
Dive Supervisor:		Years of Survey Experience:
Requirements: vessel		Comments
Accommodation for minimum (7) personnel	Yes/No and page # in application	
Meet TC safety requirements	yes, pg. 4, 24	
Excellent overall condition	yes, pg. 4	
Capable of open water passages	yes, pg. 5	
P&I Liability insurance	yes, pg. 5	
Sufficient space for storage/drying dive gear	yes, pg. 4	
Adequate freshwater supply	yes, pg. 5, 25	
Communication equipment suitable for area of work (satellite phone, Global star preferred, VHF, cellphone)	yes, pg. 5, 24	
Onboard operational equipment (ie. Radar, sounders, etc).	yes, pg. 5, 24	
Oxygen cylinder "M"/625 liter cylinder or greater	yes, pg. 5	
Requirements: divers		Comments
(4) CSA/WCB certified divers	Yes/No and page # in application	
Valid certified compressor	yes, pg. 4, 23	
Valid scuba tanks	yes, pg. 5	
(2) tending vessels that meet all TC small vessel regs.	yes, pg. 5	
Oxygen cylinder "E" or "D" per tender	yes, pg. 5, 25	



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DIVE CHARTER			
Applied for Location:	CC/SOG		
Vessel Name:	Ocean Cloud	VRN:	20591
Skipper:		Years of Survey Experience:	
Dive Supervisor:		Years of Survey Experience:	
<u>Requirements: vessel</u>		Yes/No and page # in application	Comments
Accommodation for minimum (7) personnel		yes, pg. 4, 28	
Meet TC safety requirements		yes, pg. 4	
Excellent overall condition		yes, pg. 5	
Capable of open water passages		yes, pg. 5	
P&I Liability insurance		yes, pg. 4	
Sufficient space for storage/drying dive gear		yes, pg. 5, 29	
Adequate freshwater supply		yes, pg. 5, 28	
Communication equipment suitable for area of work (satellite phone, Global star preferred, VHF, cellphone)		yes, pg. 5, 28	
Onboard operational equipment (ie. Radar, sounders, etc).		yes, pg. 5, 28	
Oxygen cylinder "M" /625 liter cylinder or greater		yes, pg. 5	
<u>Requirements: divers</u>		Yes/No and page # in application	Comments
(4) CSA/WCB certified divers		yes, pg. 4, 27	
Valid certified compressor		yes, pg. 5	
Valid scuba tanks		yes, pg. 5	
(2) tending vessels that meet all TC small vessel regs.		yes, pg. 5, 29	
Oxygen cylinder "E" or "D" per tender		yes, pg. 5, 29	



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DIVE CHARTER		
Applied for Location:	SOG	
Vessel Name:	Viking Spirit	VRN: 21210
Skipper:		Years of Survey Experience:
Dive Supervisor:		Years of Survey Experience:
Requirements: vessel		Comments
Accommodation for minimum (7) personnel	Yes/No and page # in application	
Meet TC safety requirements	yes, pg. 4, 32	
Excellent overall condition	yes, pg. 4	
Capable of open water passages	yes, pg. 5	
P&I Liability insurance	yes, pg. 5	
Sufficient space for storage/drying dive gear	yes, pg. 4	
Adequate freshwater supply	yes, pg. 5, 33	
Communication equipment suitable for area of work (satellite phone, Global star preferred, VHF, cellphone)	yes, pg. 5, 32	
Onboard operational equipment (ie. Radar, sounders, etc).	yes, pg. 5, 32	
Oxygen cylinder "M" /625 liter cylinder or greater	yes, pg. 5	
Requirements: divers		Comments
(4) CSA/WCB certified divers	Yes/No and page # in application	
Valid certified compressor	yes, pg. 4, 31	
Valid scuba tanks	yes, pg. 5	
(2) tending vessels that meet all TC small vessel regs.	yes, pg. 5	
Oxygen cylinder "E" or "D" per tender	yes, pg. 5, 33	
	yes, pg. 5	

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SEINE TEST VESSEL		
Applied for Location:	HG	
Vessel Name:	Queens Reach	VRN: 21915
Skipper:		Years of Survey Experience:
Requirements: vessel		Comments
Accommodation for minimum (6) personnel	Yes/No and page # in application	
Meet TC safety requirements	yes, 8, 51	
Excellent overall condition	pg. 8	
Capable of open water passages	pg. 8	
P&I Liability insurance	pg. 8	
Capable of freezing and storing biological samples	pg. 8, 51	
Full-sized herring seine and required equipment for seining	pg. 8	
Communication equipment suitable for area of work (satellite phone, Global star preferred, VHF, cellphone)	pg. 8, 52	
Onboard operational equipment (ie. Radar, sounders, etc).	pg. 8, 52	



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SEINE TEST VESSEL		
Applied for Location:	PRD (Big Bay)	
Vessel Name:	Nita Maria	VRN: 20593
Skipper:		Years of Survey Experience:
Requirements: vessel		Comments
Accommodation for minimum (6) personnel		Yes/No and page # in application
Meet TC safety requirements		yes, pg. 8, 54
Excellent overall condition		yes, pg. 8
Capable of open water passages		yes, pg. 8
P&I Liability insurance		yes, pg. 8
Capable of freezing and storing biological samples		yes, pg. 8, 54
Full-sized herring seine and required equipment for seining		yes, pg. 8
Communication equipment suitable for area of work (satellite phone, Global star preferred, VHF, cellphone)		yes, pg. 8, 55
Onboard operational equipment (ie. Radar, sounders, etc).		yes, pg. 8, 55

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SEINE TEST VESSEL		
Applied for Location:	PRD (Big Bay) and CC	
Vessel Name:	Franciscan	VRN: 391832
Skipper:		Years of Survey Experience:
Requirements: vessel		Comments
Accommodation for minimum (6) personnel		Yes/No and page # in application
Meet TC safety requirements		yes, pg. 8, 57
Excellent overall condition		yes, pg. 8
Capable of open water passages		yes, pg. 8
P&I Liability insurance		yes, pg. 8
Capable of freezing and storing biological samples		yes, pg. 8, 57
Full-sized herring seine and required equipment for seining		yes, pg. 8
Communication equipment suitable for area of work (satellite phone, Global star preferred, VHF, cellphone)		yes, pg. 8, 58
Onboard operational equipment (ie. Radar, sounders, etc).		yes, pg. 8, 58



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<u>SEINE TEST VESSEL</u>		
Applied for Location:	SOG	
Vessel Name:	Denman Isl	VRN: 27619
Skipper:		Years of Survey Experience:
<u>Requirements: vessel</u>		Comments
Accommodation for minimum (6) personnel		Yes/No and page # in application
Meet TC safety requirements		yes, pg. 8, 60
Excellent overall condition		yes, pg. 8
Capable of open water passages		yes, pg. 8
P&I Liability insurance		yes, pg. 8
Capable of freezing and storing biological samples		yes, pg. 8, 60
Full-sized herring seine and required equipment for seining		yes, pg. 8
Communication equipment suitable for area of work (satellite phone, Global star preferred, VHF, cellphone)		yes, pg. 8, 61
Onboard operational equipment (ie. Radar, sounders, etc).		yes, pg. 8, 61

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<u>SEINE TEST VESSEL</u>		
Applied for Location:	WCVI	
Vessel Name:	Proud Canadian	VRN: 22460
Skipper:		Years of Survey Experience:
<u>Requirements: vessel</u>		Comments
Accommodation for minimum (6) personnel		Yes/No and page # in application
Meet TC safety requirements		yes, pg. 8, 63
Excellent overall condition		yes, pg. 8
Capable of open water passages		yes, pg. 8
P&I Liability insurance		yes, pg. 8
Capable of freezing and storing biological samples		yes, pg. 8, 63
Full-sized herring seine and required equipment for seining		yes, pg. 8
Communication equipment suitable for area of work (satellite phone, Global star preferred, VHF, cellphone)		yes, pg. 8, 64
Onboard operational equipment (ie. Radar, sounders, etc).		yes, pg. 8, 64



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SEINE TEST VESSEL		
Applied for Location:	St. of Georgia sounding platform	
Vessel Name:	Canadian Shore	VRN: 29503
Skipper:		Years of Survey Experience:
<u>Requirements: vessel</u>		Comments
Accommodation for minimum (6) personnel		Yes/No and page # in application yes; pg. 8, 65
Meet TC safety requirements		yes; pg. 8
Excellent overall condition		yes; pg. 8
Capable of open water passages		yes; pg. 8
P&I Liability insurance		yes; pg. 8
Capable of freezing and storing biological samples		na
Full-sized herring seine and required equipment for seining		na
Communication equipment suitable for area of work (satellite phone, Global star preferred, VHF, cellphone)		yes; pg. 8, 67
Onboard operational equipment (ie. Radar, sounders, etc).		yes; pg. 8, 67

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SPAWN RECONNAISSANCE VESSEL – HG 2E		
Applied for Location:	HG 2E	
Vessel Name:	Victoria Rose	VRN: na
Skipper:		Years of Survey Experience:
<u>Requirements: vessel</u>		Comments
Accommodation for minimum (3) personnel		Yes/No and page # in application yes; pg. 7
Meet TC safety requirements		yes; pg. 7
Excellent overall condition		yes; pg. 7
Capable of open water passages		yes; pg. 7
P&I Liability insurance		yes; pg. 7
Communication equipment suitable for area of work (satellite phone, Global star preferred, VHF, cellphone)		yes; pg. 7, 48
Onboard operational equipment (ie. Radar, sounders, etc).		yes; pg. 7, 48



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SURFACE SPAWN SURVEY VESSEL – HG 2W		
Applied for Location: HG 2W		
Vessel Name: Atlas		VRN: na
Skipper:		Years of Survey Experience:
<u>Requirements: vessel</u>		Comments
Accommodation for minimum (3) personnel		Yes/No and page # in application yes, pg. 6, 40
Meet TC safety requirements		yes, pg. 6
Excellent overall condition		yes, pg. 6
Capable of open water passages		yes, pg. 6
P&I Liability insurance		yes, pg. 6
Communication equipment suitable for area of work (satellite phone, Global star preferred, VHF, cellphone)		yes, pg. 6, 40
Onboard operational equipment (ie. Radar, sounders, etc).		yes, pg. 6, 40, 41

[illegible]

2019 Herring Assessment Program - preseason plan

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AREA	TYPE OF CHARTER	VESSEL	SKIPPER	START DATE	DAYS
Haida Gwaii	Seine Test 2E/2W	Queens Reach		March 9	25
	Dive 2E	Haida Spirit		April 6	18
	Reconnaissance 2E	Victoria Rose		April 1	19
	Surface Survey 2W	Atlas		April 1	6
Prince Rupert	Seine Test A3/4	Nita Maria		March 15	13
	Seine Test A5	Franciscan No. 1		March 15	13
	Dive	Royal Pride		March 27	20
Central	Dive	Pachena		April 8	17
Central	Seine Test	Windward Isle.	TBC	TBC	TBC
SOG/CC	Dive	Ocean Cloud		March 13	24
St. of Georgia	Seine Test	Denman Isle		February 20	27
	Seine Sounding	Canadian Shore		February 25	15
	Dive	Viking Spirit		March 13	21
WCVI	Seine Test	Proud Canadian		February 20	20
	Dive	Pachena		March 5	19
SOG/WCVI/27	Shorebased Dive	Seaveyor 1		February 20	15

Dec 23/17

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Herring Conservation and Research Society

101-5170 Dunster Rd., Box 403 P: (250)741-6759
Nanaimo, B.C. V9T 6M4 F:

Email: greg.thomas@shaw.ca
Website

Bill To: **DFO Accounts Payable**

Phone:

Invoice #:

HCR 19 - 1

Address:


Fax:

Invoice Date:

March 6, 2019

Email:

Invoice for: 2019 Pacific Herring Survey off the British Columbia Coast

Item #	Description	Qty	Unit Price	Discount	Price
	Contract No. F5211-180018				
	Pacific Herring Survey off the British Columbia Coast				
	Contracting Authority: Kimberly Walker				
	Scientific Authority: Jaclyn Cleary				
	Program Costs - First Milestone				\$ 70,000.00
	I certify that I have examined the information contained in this invoice, including the legal name, address and Canada Revenue Agency identifier, and that it is correct, and complete, and fully discloses the identification of this Contractor.				
					
	The HCRS is a non-profit society number S34869				
	HCRS GST # 87368 8527RT001				

Invoice Subtotal	\$ 70,000.00
Tax Rate	5.00%
Sales Tax	3,500.00
Other	
Deposit Received	
TOTAL	\$ 73,500.00

Make all checks payable to Herring Conservation and Research Society.
Total due immediately.

\$

estimated

Fuel @

1.50/1

Location

40 40 40 40 40

Staff Rank

hourly rate

40.8013902
25.3741184
25.3741184
40.8013902
29.2267198

estimated number of hours	estimated salary cost (hourly rate x hours)	Meals
4	163.2055607	\$ 18.05
4	101.4964735	\$ 18.05
4	101.4964735	\$ 18.05
4	163.2055607	\$ 18.05
4	116.9068793	\$ 18.05
	\$ 646.31	\$ 90.25

Rusch, Bryan

From: Rusch, Bryan
Sent: Tuesday, January 23, 2018 4:16 PM
To: Spence, Brenda; Neuman, Amber; Goruk, Andrea; Postlethwaite, Victoria
Subject: RE: SOG platform - Science contract

My thoughts are that under the current scenario the fishery would be done after 10 days unless industry wants to kick in extra funds to keep us out there. There is no rationale to use the test boat for management just because we have to accept a ridiculously high bid on the management platform. This was their opportunity to provide a better and more cost effective management platform for the fishery but they seem to have messed that up before it even started. We will be back on the Neo in 2019 by the looks of things.

I guess we need to try re-posting and see where it goes. The risk will be that the original applicant may find something else to do in the meantime and we could end up with no vessel.

Bryan Rusch
Phone: (250) 756-7294
Email: bryan.rusch@dfo-mpo.gc.ca

From: Spence, Brenda
Sent: January-23-18 3:26 PM
To: Rusch, Bryan; Neuman, Amber; Goruk, Andrea; Postlethwaite, Victoria
Subject: RE: SOG platform - Science contract

The cost is excessive and hard to justify, but we do need a vessel. It could be reposed if we make the decision to do so by the 29th and start working with contracting, and I'm not sure the fishery will be over after 10 days, just the managers will not have a home. One option would be to use the Denman Isle but that would need science approval and might not sit well with him as he is getting 2/3 of the price of the platform which did not even fish or have a full crew.

From: Rusch, Bryan
Sent: January-23-18 2:39 PM
To: Spence, Brenda; Neuman, Amber; Goruk, Andrea; Postlethwaite, Victoria
Subject: RE: SOG platform - Science contract

s.19(1) Seems a bit ridiculous that the management platform costs almost twice as much per day as the test boat!

I'm not sure that there is time to repost this as a separate contract prior to the end of February particularly if the contracting officer that we need to deal with [REDACTED].

I likely cannot take this on if we do want to re-post as my first two weeks of February are getting full fast but I could assist whoever is leading this in the process.

I'm not sure we will get many or any additional bids as it seems like finding suitable vessels that are not already busy during this period has been a problem. I guess worst case scenario is we have a management platform for 10 days and then the fishery is over.... Maybe not such a bad thing!

Bryan Rusch
Phone: (250) 756-7294
Email: bryan.rusch@dfo-mpo.gc.ca

From: Spence, Brenda
Sent: January-23-18 1:44 PM
To: Neuman, Amber; Goruk, Andrea; Rusch, Bryan; Postlethwaite, Victoria
Subject: SOG platform - Science contract

There is a problem with the SOG platform bid, we have 70 k from Andy Thompson:

from JCleary:

"As it stands right now you have enough budget for 11.5 days for the management platform. The contract paperwork has been submitted to procurement but the contracting officer [REDACTED] so I don't anticipate a signed contract until at least Jan 29. You do have another option. Request for a management platform could be posted as a single contract for e.g., min 10-days, up to 20 days. This would only need to be posted for 2 weeks because it would get NAFTA exemption- where as the science work does not. I can help you with this other route if needed, and work with the same contracting officer. Please discuss within FM and let me know by early next week. Cc'ing Matt Thompson as he can help us get this paper work together and posted while I'm in Halifax.

I have asked Jaclyn if we can pull it out, post it under a separate contract, then still use the HCRS if the bids don't come in on the individual process, and she indicated we could do that. Someone will need to take the lead on this while I [REDACTED], Caroline Wells is acting for me but likely should not be the lead on this item.

Thoughts?

Rusch, Bryan

From: Neuman, Amber
Sent: Monday, November 19, 2018 10:09 AM
To: Rusch, Bryan
Subject: FW: Procurement HUB deadline: Nov 30, 2018

Hi Bryan,

Did you get a chance to talk to Andrea about the management platform? Are we sticking with the Canadian Shore? Note the deadline below if we want to put a new call out for bids.

Cheers,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) [REDACTED]

From: Cleary, Jaclyn
Sent: 2018–November-18 5:19 PM
To: Neuman, Amber
Subject: Fwd: Procurement HUB deadline: Nov 30, 2018

Hi amber,

Have you any further direction for separate contract for SoG Mgmt platform? See deadline below.

J

Begin forwarded message:

From: "Haaland, Melody" <Melody.Haaland@dfo-mpo.gc.ca>
Date: November 13, 2018 at 8:20:20 AM PST
To: DFO.R PAC Science STAR QAM / MQE ESRS Sciences PAC R.MPOO <DFO.RPACScienceSTARQAM-MQEESRSciencesPACR.MPOO@dfo-mpo.gc.ca>, DFO.R PAC Science STAR GF / PF ESRS Sciences PAC R.MPO <DFO.RPACScienceSTARGF-PFESRSciencesPACR.MPO@dfo-mpo.gc.ca>
Subject: FW: Procurement HUB deadline: Nov 30, 2018

REMINDER: All requirements for contracting with a targeted delivery prior to March 31, 2019 should be submitted to the Procurement Hub no later than November 30, 2018. Depending on the duration of the services required or delivery time for goods required, an earlier submission date may be prudent.

FYI and distribution as necessary to program managers and staff that will be procuring goods and services (with a March 31, 2019 delivery date) via the DFO HUB.

http://intra.dfo-mpo.gc.ca/loop-courant/nat/2018/20181026/20181026_07_e.htm

Regards,

Melody Haaland

Administrative Assistant, Science Branch / Pacific Region - Stock Assessment & Research
Division (StAR)
Fisheries and Oceans Canada / Government of Canada
melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071

From: Volk, Judy
Sent: November-13-18 8:15 AM
To: Luch, Gloria; Haaland, Melody
Subject: FW: Procurement HUB deadline, Nov 30, 2018

FYI.....I already sent out a reminder a few weeks ago.....

Judy Volk
Branch Coordinator
Stock Assessment and Research Division (StAR)
Pacific Biological Station
voice: (250) 756-7047 facsimile/telecopier (250) 756-7053
e-mail: judy.volk@dfo-mpo.gc.ca

From: Dhillon, Reet
Sent: November-09-18 1:14 PM
To: XPAC SC ADMIN OFFICERS
Subject: Procurement HUB deadline, Nov 30, 2018

FYI and distribution as necessary to program managers and staff that will be procuring goods and services (with a March 31, 2019 delivery date) via the DFO HUB.

http://intra.dfo-mpo.gc.ca/loop-courant/nat/2018/20181026/20181026_07_e.htm

Reet Dhillon

Business Services Manager, Science Branch, Pacific Region
Tel / Tél: 250.363.6715
Fax / Télécopieur: 250.363.6310

Rusch, Bryan

From: Goruk, Andrea
Sent: Friday, February 1, 2019 10:47 AM
To: Rusch, Bryan
Subject: FW: 2018/19 spawn flights
Attachments: Steps for Herring Flight Callup.docx

Over to you...

Andrea Goruk
250-756-7287
250- [REDACTED] (cell)

From: Thompson, Matthew
Sent: 2019-February-01 9:56 AM
To: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>; Goruk, Andrea <Andrea.Goruk@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>; Spence, Michael <Michael.Spence@dfo-mpo.gc.ca>; O'Connell, Ryan <Ryan.O'Connell@dfo-mpo.gc.ca>; Ganton, Amy <Amy.Ganton@dfo-mpo.gc.ca>; Koroluk, Bradley <Bradley.Koroluk@dfo-mpo.gc.ca>; Wong, Kristen <Kristen.Wong@dfo-mpo.gc.ca>; Groves, Steven <Steven.Groves@dfo-mpo.gc.ca>; Martens, Corey <Corey.Martens@dfo-mpo.gc.ca>; Gordon, Jennifer <Jennifer.Gordon@dfo-mpo.gc.ca>
Cc: Spence, Brenda <Brenda.Spence@dfo-mpo.gc.ca>; Postlethwaite, Victoria <Victoria.Postlethwaite@dfo-mpo.gc.ca>
Subject: RE: 2018/19 spawn flights

Good morning,

Attached is the steps for this year's spawn flight call-ups. Please proceed for February and March flights. New call-ups will need to be created for April (if funds available).
Let me know if there are any questions.

Thanks
Matt

From: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>
Sent: January-15-19 9:44 PM
To: Goruk, Andrea <Andrea.Goruk@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>; Spence, Michael <Michael.Spence@dfo-mpo.gc.ca>; O'Connell, Ryan <Ryan.O'Connell@dfo-mpo.gc.ca>; Ganton, Amy <Amy.Ganton@dfo-mpo.gc.ca>; Koroluk, Bradley <Bradley.Koroluk@dfo-mpo.gc.ca>; Wong, Kristen <Kristen.Wong@dfo-mpo.gc.ca>; Groves, Steven <Steven.Groves@dfo-mpo.gc.ca>; Martens, Corey <Corey.Martens@dfo-mpo.gc.ca>; Gordon, Jennifer <Jennifer.Gordon@dfo-mpo.gc.ca>
Cc: Spence, Brenda <Brenda.Spence@dfo-mpo.gc.ca>; Postlethwaite, Victoria <Victoria.Postlethwaite@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Subject: 2018/19 spawn flights

Hi everyone:

This email is to confirm your flight budget for herring spawn flights for Feb-March 2019 (this fiscal only). Matt and I are working on arranging call-ups and will be in touch with instructions for this process (a few changes this year).

Budget for Feb-March 2019

PRD- 5k

CC- 15k

SOG- 25k

WCVI- 20k

In the mean time, please confirm the following for each area by January 18:

AREA: SOG (Strait of Georgia)

FLIGHT COMPANY 1: Seair Seaplanes

FLIGHT COMPANY 2: Corilair

NAME OF PERSON CONDUCTING FLIGHTS: _____ ?? _____ (incl. tracking the flights and budget)

YOUR ADMIN: Janice Mattu

AREA PRD (Prince Rupert)

FLIGHT COMPANY: Inland Air

NAME OF PERSON CONDUCTING FLIGHTS: **Jennifer Gordon** (incl. tracking the flights and budget)

YOUR ADMIN: Marisa Keefe

AREA CC (Central Coast)

FLIGHT COMPANY: _____ ?? _____

NAME OF PERSON CONDUCTING FLIGHTS: **Brad Koroluk** (incl. tracking the flights and budget)

YOUR ADMIN: Melany Rambo

AREA: WCVI

FLIGHT COMPANY: West Coast Wild Adventures

NAME OF PERSON CONDUCTING FLIGHTS: _____ ?? _____ (incl. tracking the flights and budget)

YOUR ADMIN: Janice Mattu

Thank you,
Jaclyn

Jaclyn Cleary

Program Head- Pacific Herring
Quantitative Assessment Methods Section (QAMS)
Stock Assessment and Research Division, Science
Fisheries and Oceans Canada, Government of Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tel: 250-756-7321

Section de méthode d'évaluation quantitatif (SMEQ)
Division de l'évaluation des stocks et de la recherche, Science

Steps for Herring Flight Call-Ups:

Flight Location	Area	Local Herring Manager	Office Manager	Flight Operator	Address	Standing Offer	Call-Up Amount 2018/2019 fiscal
Prince Rupert	PRD	Jennifer Gordon	Sandra Cardoso	Inland Air Charters	Box 592, Prince Rupert BC V8J 3R5	E60SQ-020001/097/SQ	\$5,000
Central Coast	CC	Brad Koroluk	Melany Rambo	Wilderness Seaplanes	PO Box 121, 3675 Byng Rd, Port Hardy BC V0N 2P0	E60SQ-020001/454/ZL	\$15,000
Strait of Georgia	SOG	Amber Newman	Janice Mattu	Corilair Charters LTD	PO Box 1451 Stn A, 3050 Spit Rd, Campbell River BC V9W 5C5	E60SQ-020001/060/SQ	\$5,000
Strait of Georgia	SOG	Amber Newman	Janice Mattu	Seair Seaplanes	4640 Inglis Drive, Richmond BC V7B 1W4	E60SQ-020001/152/SQ	\$20,000
West Coast Vancouver Island	WCVI	Ryan O'Connell	Janice Mattu	West Coast Wild Adventures	Box 107, 944 Peninsula Rd, Ucluelet BC V0R 3A0	E60SQ-020001/264/ZL	\$20,000

Collator: 51880-810-120-xxxx-52101

Each Area office will create the call-up(s) and enter into Abacus

- cc Melody Haaland on call-ups

Local managers to collect flight operators signatures and returned to Melody

- Melody for Section head signatures

Invoices

- All invoices to Melody for payment directly from flight operator
- Expenditures tracked by Melody and Matt

Rusch, Bryan

From: Thompson, Matthew
Sent: Friday, February 8, 2019 9:09 AM
To: Neuman, Amber; Mattu, Janice; Rusch, Bryan
Subject: RE: 2018/19 spawn flights


Please proceed

From: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Sent: February-08-19 9:08 AM
To: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>; Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>
Subject: RE: 2018/19 spawn flights

I believe we are supposed to go ahead with the call-ups for Feb/March flights. Matt/Bryan, can you confirm that Janice should proceed for South Coast?

Thanks,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) 

s.16(2)(c)

From: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Sent: 2019-February-08 8:59 AM
To: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Subject: RE: 2018/19 spawn flights

Hi Amber,

The steps for call up still say "draft" – should I hold off on doing anything until this is fully final?

Thx,
Janice

From: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Sent: February-08-19 8:34 AM
To: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Cc: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>
Subject: RE: 2018/19 spawn flights

Hi Janice,

I just realized I hadn't followed-up with you on this. Science has still identified the RM admins to put together the call-ups for the spawn flights and then science will receive/pay invoices (see attached). Are you able to do this? Please let me know if you need anything from us.

We'll be meeting with Seair on Feb 19 and planning our first flight around Feb 20. Is Feb 19 too late to get their signature?

Bryan, can you cc' Stu? I'm not sure what his last name is.

Thanks,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) [REDACTED]

s.16(2)(c)

From: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>

Sent: 2019-February-01 9:56 AM

To: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>; Goruk, Andrea <Andrea.Goruk@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>; Spence, Michael <Michael.Spence@dfo-mpo.gc.ca>; O'Connell, Ryan <Ryan.O'Connell@dfo-mpo.gc.ca>; Ganton, Amy <Amy.Ganton@dfo-mpo.gc.ca>; Koroluk, Bradley <Bradley.Koroluk@dfo-mpo.gc.ca>; Wong, Kristen <Kristen.Wong@dfo-mpo.gc.ca>; Groves, Steven <Steven.Groves@dfo-mpo.gc.ca>; Martens, Corey <Corey.Martens@dfo-mpo.gc.ca>; Gordon, Jennifer <Jennifer.Gordon@dfo-mpo.gc.ca>

Cc: Spence, Brenda <Brenda.Spence@dfo-mpo.gc.ca>; Postlethwaite, Victoria <Victoria.Postlethwaite@dfo-mpo.gc.ca>

Subject: RE: 2018/19 spawn flights

Good morning,

Attached is the steps for this year's spawn flight call-ups. Please proceed for February and March flights. New call-ups will need to be created for April (if funds available).

Let me know if there are any questions.

Thanks

Matt

From: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>

Sent: January-15-19 9:44 PM

To: Goruk, Andrea <Andrea.Goruk@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>; Spence, Michael <Michael.Spence@dfo-mpo.gc.ca>; O'Connell, Ryan <Ryan.O'Connell@dfo-mpo.gc.ca>; Ganton, Amy <Amy.Ganton@dfo-mpo.gc.ca>; Koroluk, Bradley <Bradley.Koroluk@dfo-mpo.gc.ca>; Wong, Kristen <Kristen.Wong@dfo-mpo.gc.ca>; Groves, Steven <Steven.Groves@dfo-mpo.gc.ca>; Martens, Corey <Corey.Martens@dfo-mpo.gc.ca>; Gordon, Jennifer <Jennifer.Gordon@dfo-mpo.gc.ca>

Cc: Spence, Brenda <Brenda.Spence@dfo-mpo.gc.ca>; Postlethwaite, Victoria <Victoria.Postlethwaite@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>

Subject: 2018/19 spawn flights

Hi everyone:

This email is to confirm your flight budget for herring spawn flights for Feb-March 2019 (this fiscal only). Matt and I are working on arranging call-ups and will be in touch with instructions for this process (a few changes this year).

Budget for Feb-March 2019

PRD- 5k

CC- 15k

SOG- 25k
WCVI- 20k

In the mean time, please confirm the following for each area by January 18:

AREA: SOG (Strait of Georgia)
FLIGHT COMPANY 1: Seair Seaplanes
FLIGHT COMPANY 2: Corilair
NAME OF PERSON CONDUCTING FLIGHTS: _____??_____ (incl. tracking the flights and budget)
YOUR ADMIN: Janice Mattu

AREA PRD (Prince Rupert)
FLIGHT COMPANY: Inland Air
NAME OF PERSON CONDUCTING FLIGHTS: **Jennifer Gordon** (incl. tracking the flights and budget)
YOUR ADMIN: Marisa Keefe

AREA CC (Central Coast)
FLIGHT COMPANY: _____??_____
NAME OF PERSON CONDUCTING FLIGHTS: **Brad Koroluk** (incl. tracking the flights and budget)
YOUR ADMIN: Melany Rambo

AREA: WCVI
FLIGHT COMPANY: West Coast Wild Adventures
NAME OF PERSON CONDUCTING FLIGHTS: _____??_____ (incl. tracking the flights and budget)
YOUR ADMIN: Janice Mattu

Thank you,
Jaclyn

Jaclyn Cleary

Program Head- Pacific Herring
Quantitative Assessment Methods Section (QAMS)
Stock Assessment and Research Division, Science
Fisheries and Oceans Canada, Government of Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tel: 250-756-7321

Section de méthode d'évaluation quantitatif (SMEQ)
Division de l'évaluation des stocks et de la recherche, Science
Pêches et océans Canada, Gouvernement du Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tél: 250-756-7321

Rusch, Bryan

From: Thompson, Matthew
Sent: Wednesday, March 20, 2019 9:13 AM
To: Neuman, Amber; Rusch, Bryan; Pearce, Stewart
Cc: Haaland, Melody; Cleary, Jaclyn
Subject: Seair flights
Attachments: 2019 Spawn Budget Summary SOG.xlsx

Good morning,

FYI. Including yesterday's flight (March 19th), we will have reached the cap of the 25k for the Seair science call-up (F1582-180024). All other flights will now have to be under RM money and a new call-up needs to be in place.

Thanks
Matt

Socia Region 101-6		Science or RC Manager Lead: Jaclyn Cleary			Coding: 51880-810-120-0526-52101-6			
Allocated funds		Science						
Allocated funds		RM						
Money Spent:		\$	23,171.81					\$ 23,171.81
Balance:			\$1,828.19				flight hours	\$1,828.19
Date	Call Up Contract Number	Standing Offer Number	Company	Invoice #	pre GST	GST	Total	
21-Feb-19	F1582-180025	E60SQ-020001/152/SQ	Searl	31494	\$ 1,798.20	\$ 89.91	1,888.11	
1-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Searl	31504	\$ 1,993.01	\$ 99.65	2,092.66	
6-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Searl	31512	\$ 1,698.30	\$ 84.92	1,783.22	
8-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Searl	31518	\$ 1,698.30	\$ 84.92	1,783.22	
9-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Searl	31523	\$ 1,598.40	\$ 79.92	1,678.32	
10-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Searl	31525	\$ 1,398.60	\$ 69.93	1,468.53	
11-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Searl	31527	\$ 1,598.40	\$ 79.92	1,678.32	
12-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Searl	31530	\$ 1,598.40	\$ 79.92	1,678.32	
13-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Searl	31352	\$ 1,698.30	\$ 84.92	1,783.22	
14-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Searl	31353	\$ 1,598.40	\$ 79.92	1,678.32	
15-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Searl	31536	\$ 1,698.30	\$ 84.92	1,783.22	
16-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Searl	31539	\$ 1,298.70	\$ 64.94	1,363.64	
17-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Searl	31540	\$ 1,798.20	\$ 89.91	1,888.11	
18-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Searl	31541	\$ 1,698.30	\$ 84.92	1,783.22	
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[illegible]

Rusch, Bryan

From: Rusch, Bryan
Sent: Thursday, March 21, 2019 10:10 AM
To: Knox, Julie; Pearce, Stewart; Thompson, Matthew; Neuman, Amber
Cc: Preston, Paul
Subject: RE: PO for Seair flights

I think that is good. Stew is flying with Sea Air today and can get them to sign and then we should be good for additional flights next week. I checking with Stew this afternoon and see if we have everything figured out.

Thanks,

Bryan

From: Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>
Sent: Thursday, March 21, 2019 10:05 AM
To: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Cc: Preston, Paul <Paul.Preston@dfo-mpo.gc.ca>
Subject: RE: PO for Seair flights

I sent a copy of the unsigned PO to Stewart yesterday afternoon. Should I have sent it to someone else?

Thanks,

Julie Knox - Admin Officer

Julie.Knox@dfo-mpo.gc.ca / Tel: 250-756-7288

From: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>
Sent: March-21-19 9:35 AM
To: Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Cc: Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>; Preston, Paul <Paul.Preston@dfo-mpo.gc.ca>
Subject: RE: PO for Seair flights

I believe that Janice is not back until April 1 so we need to sort this out before she returns. I know that I have approved the call-ups but don't know where the process goes from there.

I'm in Parksville at a meeting this morning but will be back at the office shortly after lunch.

Thanks,

Bryan

From: Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>
Sent: Wednesday, March 20, 2019 2:39 PM
To: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Cc: Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>; Preston, Paul <Paul.Preston@dfo-mpo.gc.ca>
Subject: Fw: PO for Seair flights

Hi All,

Please see my correspondence with Julie below regarding the status of the PO for \$7500 - looks like the process is underway but may be in limbo until Janice returns?

The PO for funds from Paul Preston (\$2100) has been signed by Seair and returned to Paul for finalization. So it looks like we are good to fly with those funds tomorrow however the status of the \$7500 is yet to be determined.

Stew

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>
Sent: Tuesday, March 19, 2019 4:22 PM
To: Pearce, Stewart
Subject: RE: PO for Seair flights

Janice has a call-up under Bryan's name that was originally entered for \$5K in February and Janice increased to a total of \$7.5K last week. I can't access her sent mail to see if she sent a PO for signature, but it is approved in Abacus. It says for herring— this is what you're looking for? The PO# is F1582-180028.

Thanks,

Julie Knox - Admin Officer

Julie.Knox@dfo-mpo.gc.ca / Tel: 250-756-7288

From: Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>
Sent: March-19-19 4:11 PM
To: Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>
Subject: Re: PO for Seair flights

Yes. The first PO was \$2100 contributed from Paul Preston. Bryan is contributing an additional \$7500 from his budget (\$9600 total).

Stew

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Knox, Julie
Sent: Tuesday, March 19, 2019 3:55 PM
To: Pearce, Stewart
Subject: RE: PO for Seair flights

This is different from the Seair PO you sent earlier today?

Thanks,

Julie Knox - Admin Officer

Julie.Knox@dfo-mpo.gc.ca / Tel: 250-756-7288

From: Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>
Sent: March-19-19 2:45 PM
To: Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>
Cc: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Subject: PO for Seair flights

Hi Julie,

Bryan has an additional \$7500 for the spawn flight program that we will need available asap (the original science budget of \$25k is now tapped). Bryan has informed me that a PO was being drafted for these funds, so I just wanted to confirm that the process is underway?

Cheers,

Stew

Sent from my BlackBerry 10 smartphone on the Rogers network.

Biological Sampling Costs

Date April 9,

Bryan, Amber, Jacklyn, Brenda

- More samples, making less money from Science and they are trying to make up for it.
 - ↳ [redacted] / sample (per ton)
 - ↳ we already charge \$2700 to bring samples in.
 - ↳ industry is paying [redacted] \$/day to have observer on board
 - ↳ we pay [redacted] / sample.
 - ↳ calling it "admin fee"
- ^{Industry} DFO brought these concerns up - [redacted] / ton is admin fee. Industry is paying this
 - ↳ also paying for vessel log package
 - ↳ need to be transparent about what this is used for
- Sampling is done on the grounds unlike in the roe fishery - important because concerns regarding the stocks in this area.
 - ↳ they could fish in other areas so we need a system that is robust to that.
- Next steps - ask questions to JOT. They have asked if DFO Sci could cover admin fees - we could come and pick up the samples
 - ↳ paying for Karl's time
 - ↳ reduce # of samples?
 - ↳ we are not willing to pay more - negotiation w/ industry / JOT?
 - ↳ we can make sampling a condition - prawn is an example of this.
- Get industry to deliver ~~examples~~ samples?
 - ↳ industry to sit down with them and see what they need to run their sampling program.
- For JOT meeting - tell them they need to sort out with industry. - meeting on April 26.

- Don't want to suggest reducing samples, only 8 out of 45 we didn't use this year so not useful to screen them before we get it.

- What needs to be done with MSE groups?
- Does help to get groups to continue to engage with us but it's in 2 different cycles
- If comms can be done by email, that would be good.
- No objectives from A-Tlegay but Qualium has.
- Cristina doesn't have the ear/capacity to develop objectives
- Tlamin
- One pager of where MSE SOG process sits?
- Need that content for HWG/IHHPC to talk about where we are, focus on each area if we need to.
→ present @ HIAB/IHHPC
- Me work w/ Jaclyn re: MSE update material
- HIAB objectives? Go back to letter and respond prior to meeting/call. Jaclyn to do this.
→ meet w/ them in June (smaller group).
→ first half.
- Jaclyn will be able to provide written feedback.
- Gabriela meeting did not go well → they spoke their opinion.
- Bryan MSE meeting?
- IMAWG? Present objectives from different areas?
→ create understanding, show work that different groups are doing
- May doesn't work for JC.
- Documenting MSE work/process.
→ table. powerpoint?

Science or RC Manager Lead: Jaclyn Cleary		Coding: 51880-810-120-0526-52101-6	
	Science		
Allocated funds	\$5,000.00		
Allocated funds	RM		
Money Spent:	\$ 3,596.40		\$ 3,596.40
Balance:	\$1,403.60		\$1,403.60
Date	Standing Offer Number	Invoice #	flight hours GST
1-Apr-19	E60SQ-020001/152/SQ	31565 \$	\$ 84.92
3-Apr-19	E60SQ-020001/152/SQ	31568 \$	\$ 94.91
			\$ -
			\$ -
			\$ -
			\$ -
TOTALS		\$ 3,596.40	\$ 179.82 \$ 3,776.22

F1582-180024	E60SQ-020001/060/SQ	Corlair
--------------	---------------------	---------

Seair Flight Rate/hr	\$	999.00	Fuel cost
Corlair		\$807.25	\$1.51
Flight Hours Remaining	1.405005005	0.78	flights remaining based on average sent to DFO Invoicing
Passengers		Flight Hours	
Amber Neuman, Bill Neuman		1.7	
Amber Neuman, Josh Duncan		1.9	
average hrs	0	3.6	1.80

Funding Source	Amount	PO#
Science (2018-19)	\$25,000	F1582-180025
Treaty (2018-19)	\$2,100	F1582-180034
Resource Mgmt (2018-19)	\$7,500	F1582-180028
Science (2019-2020)	\$5,000	F1582-190001
TOTAL	\$39,600	

[illegible]

Stock Region: 506		Science or RC Manager Lead: Jaclyn Cleary		Coding: 51880-810-120-0526-52101-6			
Allocated funds		Science					
Allocated funds		RM					
Money Spent:		\$	33,461.51				
Balance:			\$1,138.49				
Date	Call Up Contract Number	Standing Offer Number	Company	Invoice #	pre GST	flight hours	Total
21-Feb-19	F1582-180025	E60SQ-020001/152/SQ	Seair	31494	\$ 1,798.20	\$ 89.91	1,888.11
1-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Seair	31504	\$ 1,993.01	\$ 99.65	2,092.66
6-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Seair	31512	\$ 1,698.30	\$ 84.92	1,783.22
8-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Seair	31518	\$ 1,698.30	\$ 84.92	1,783.22
9-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Seair	31523	\$ 1,598.40	\$ 79.92	1,678.32
10-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Seair	31525	\$ 1,398.60	\$ 69.93	1,468.53
11-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Seair	31527	\$ 1,598.40	\$ 79.92	1,678.32
12-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Seair	31530	\$ 1,598.40	\$ 79.92	1,678.32
13-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Seair	31532	\$ 1,698.30	\$ 84.92	1,783.22
14-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Seair	31533	\$ 1,598.40	\$ 79.92	1,678.32
15-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Seair	31536	\$ 1,698.30	\$ 84.92	1,783.22
16-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Seair	31539	\$ 1,298.70	\$ 64.94	1,363.64
17-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Seair	31540	\$ 1,798.20	\$ 89.91	1,888.11
18-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Seair	31541	\$ 1,698.30	\$ 84.92	1,783.22
19-Mar-19	F1582-180025	E60SQ-020001/152/SQ	Seair	31543	\$ 1,698.30	\$ 84.92	1,783.22
21-Mar-19	F1582-180034	E60SQ-020001/152/SQ	Seair	31546	\$ 1,698.30	\$ 84.92	1,783.22
23-Mar-19	F1582-180028	E60SQ-020001/152/SQ	Seair	31550	\$ 1,498.50	\$ 74.93	1,573.43
25-Mar-19	F1582-180028	E60SQ-020001/152/SQ	Seair	31553	\$ 1,698.30	\$ 84.92	1,783.22
27-Mar-19	F1582-180028	E60SQ-020001/152/SQ	Seair	31557	\$ 1,998.00	\$ 99.90	2,097.90
29-Mar-19	F1582-180028	E60SQ-020001/152/SQ	Seair	31560	\$ 1,698.30	\$ 84.92	1,783.22
						\$ -	0.00
						\$ -	0.00
						\$ -	0.00
						\$ -	0.00
						\$ -	0.00
TOTALS					\$ 33,461.51	\$ 1,673.08	\$ 35,134.59

F1582-180024	E60SQ-020001/060/SQ	Corlair
--------------	---------------------	---------

Seair Flight Rate/hr	\$	999.00
Corlair		\$807.25
Flight Hours Remaining	1.13962963	0.68
Passengers	Flight Hours	
Stew Pearce, Amber Neuman	1.8	
Stew Pearce	1.9	
Stew Pearce, Matt Thompson	1.7	
Matt Thompson, Matt Grinnell	1.7	
Matt Thompson, Hilari Dennis-Bohm	1.6	
Matt Thompson, Hilari Dennis-Bohm	1.4	
Stew Pearce	1.6	
Stew Pearce, Deirdre Finn	1.6	
Stew Pearce	1.7	
Stew Pearce, Bryan Rusch	1.6	
Stew Pearce	1.7	
Stew Pearce, Graham Pearce	1.3	
Stew Pearce	1.8	
Stew Pearce	1.7	
Stew Pearce	1.7	
Stew Pearce, Matt Thompson	1.7	
Matt Thompson, Cameron Thompson	1.5	
Stew Pearce, Desmond Bliet	1.7	
Bryan Rusch, Nicole Fredrickson	2	
Bryan Rusch, Josh Duncan	1.7	
average hrs	0	33.4
		1.67

Fuel cost \$1.51

0.68 flights remaining based on average sent to DFOInvoicing

Funding Source	Amount	PO#
Science	\$25,000	F1582-180025
Treaty	\$2,100	F1582-180034
Resource Mgmt	\$7,500	F1582-180028
Science	\$5,000	F1582-190001
TOTAL	\$39,600	

yes
yes
yes
yes
yes
yes
yes
yes

2019 Strait of Georgia Herring Flight Summary

- 22 Flights conducted with Seair from Nanaimo:
 - Feb 21
 - Mar 1
 - Mar 6
 - Mar 8 – 19 (consecutively)
 - Mar 21
 - Mar 23
 - Mar 25
 - Mar 27
 - Mar 29
 - Apr 1
 - Apr 3
- Primary Observers:
 - Stew Pearce
 - Matt Thompson
 - Bryan Rusch
 - Amber Neuman
- Total budget for 2019 season was \$39,600
 - Science (2018-19 fiscal): \$25,000
 - Treaty (Paul Preston): \$2,100
 - Resource Management: \$7,500
 - Science (2019-20 fiscal): \$5,000
- Total spent on flights (pre-GST): \$37,057.91
 - 2018-19 fiscal: \$33,461.51
 - 2019-20 fiscal: \$3,596.40
 - Average flight time: 1.7 hours
 - Average flight cost: \$1,756.73
- Total spawn observed was 40.7NM length:
 - A14: 40.7NM
 - A15: 0.0NM
 - A17: 0.0NM

- **Successes**

- Weather was great for the most part, with good visibility on all but 2 days which had some low cloud/fog between French Creek and Lower Hornby
- No flights were delayed/postponed due to weather
- No constraints with observers i.e. no flights were postponed/delayed

- **Challenges**

- Schedule through mid-March was perhaps too rigorous for Seair – better communication from DFO required pre-season in order for Seair to schedule a relief pilot if necessary (pilots are not supposed to fly more than 13 consecutive days due to Transport Canada regulations)

Postlethwaite, Victoria

From: Neuman, Amber
Sent: Tuesday, February 19, 2019 1:18 PM
To: Haaland, Melody
Cc: Mattu, Janice
Subject: RE: Corilair and Seair PO's
Attachments: Seair-PurchaseOrder-F1582-180025-Feb2019.pdf


Hi Melody,

The signed Seair PO was attached to the email I sent out this morning but I have attached it here as well to close the loop.

I still have to follow-up on the Corilair PO.

Cheers,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) 

From: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Sent: 2019-February-14 12:29 PM
To: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Cc: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>
Subject: Corilair and Seair PO's

Hi Amber,

Please find attached the 5K Corilair PO and the 20K Seair PO.

Please provide copies of these to the vendors and ask them to sign page 3 as Supplier and return signed copies to Melody Haaland.

Note: Please remind all operators that invoices need to be send to Melody for payment.

Thanks.
Janice

Janice Mattu
Administrative Officer, Resource Management
Fisheries and Oceans Canada / Pêches et Océans Canada
South Coast Area / Secteur de la Côte Sud
3225 Stephenson Point Road / 3225 rue Stephenson Pt.
Nanaimo, BC V9T 1K3 / Nanaimo, (C.-B.) V9T 1K3
Tel: (250) 756-7257



PURCHASE ORDER

This Purchase Order is made as of the contract award date below between Her Majesty the Queen in Right of Canada (hereinafter referred to as "Her Majesty") represented by the Minister of Fisheries and Oceans (hereinafter referred to as "Fisheries and Oceans Canada") and the supplier (as named herein).

SUPPLIER – FOURNISSEUR

SEAIR SERVICES 1990 LTD.
4640 INGLIS DRIVE
RICHMOND, BC V7B 1W4
Canada

ISSUED BY - PRÉPARÉ PAR

FISHERIES MGMT-SOUTH COAST
3225 STEPHENSON POINT ROAD
NANAIMO, BC V9T 1K3

Tel: 2507567257
E-mail: JANICE.MATTU@DFO-MPO.GC.CA

COMMANDE D'ACHAT

Cette commande d'achat est faite en date d'octroi de contrat ci-dessous entre Sa Majesté la Reine du chef du Canada (ci-après appelée "Sa Majesté") représenté par le Ministre des Pêches et Océans Canada (ci-après appelé "Pêches et Océans Canada") et le Fournisseur (tel qu'indiqué dans les présentes).

IMPORTANT

The Contract No. must appear on invoices, B/L, packing lists, correspondence and outside containers.
Le No. de contrat doit être indiqué sur les factures, les connaissements, les listes d'emballage, la correspondance et à l'extérieur des contenants.

Contract No./ No. de contrat. **F1582-180025**

Amend. No/No. de modif **0**

Contract Award Date/
Date d'octroi de contrat **14-FEB-2019**

Address Enquiries to - Adresser toute demande à

FORREST, ROBYN

Tel:
E-mail: ROBYN.FORREST@DFO-MPO.GC.CA

This purchase document references Standing Offer Agreement Number /

Ce document d'achat fait référence à un numéro d'entente d'offre à commandes **E60SQ-020001/152/SQ**

SHIP TO/
EXPÉDIER À: **F1582**

BILL TO/
FACTURER À: **DFO.invoicing-facturation.MPO@canada.ca**

FISHERIES MGMT-SOUTH COAST
3225 STEPHENSON POINT ROAD
NANAIMO, BC V9T 1K3
Canada

DFO-ACCOUNTS PAYABLE/MPO-COMPTES PAYABLE
PO BOX 1901, STN A / CP 1901, STN A
FREDERICTON, NB E3B 5G4
Canada

Attn: **MATTU, JANICE**

Departmental Financial Codes - Codes financiers ministériel

51880-810-120-0526-52101-6

Freight Terms - Conditions pour les frais de transport

Contract End Date - Date de fin du contrat

FOB – FAR

PST No. - N° de TVP Exemption

HST/GST - TPS/
TVH

Estimated Total Cost - Prix total prévu

20,000.00 CAD
(Tax excluded)/(Taxe exclus)

EXTRA

Continued/ suite...

Canada



PURCHASE ORDER
(Continuation sheet)

COMMANDE D'ACHAT
(suite)

P.O. No. - N° de commande

F1582-180025

Amend. No. - N° de modif.

0

The Vendor agrees to provide to Fisheries and Oceans Canada the goods or services identified at the specified prices and in accordance with all terms and conditions of this Purchase order.

Le Fournisseur accepte de fournir Pêches et Océans Canada les biens ou services identifiés dans les présentes en conformité avec les prix spécifiés et avec les modalités de cette commande d'achat.

Continued/ suite...

Item no. No Article	Description Description	Delivery Date Date de livraison	Quantity Quantité	U of I U de D	Unit Price Prix unitaire	Extended Cost Prix total prévu
1	Air Charters as and when required	31-MAR-19	1	SUM-LUMP SUM/FORFA ITAIRE	20,000.00	20,000.00



PURCHASE ORDER
(Continuation sheet)

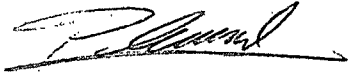
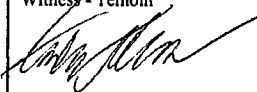
COMMANDE D'ACHAT
(suite)

P.O. No. - N° de commande
F1582-180025
Amend. No. - N° de modif.
0

The following documents form part of this Purchase Order. The supplier recognizes and agrees to all terms and conditions set out in this request, including:

Les documents ci-joints font partie intégrale de cette commande d'achat. Le Fournisseur convient et accepte tous les termes et conditions tels que décrits dans cette demande, incluant:

Continued/ suite...

FOR THE SUPPLIER - POUR LE FOURNISSEUR		
Signature 	Witness - Témoin 	Date FEB 19, 2019
Print or type - Imprimer ou dactylographier Peter Clarke	Position title - Titre du poste President	
Signature	Witness - Témoin	Date
Print or type - Imprimer ou dactylographier	Position title - Titre du poste	
APPROVED FOR THE MINISTER - APPROUVÉ POUR LE MINISTRE		
Signature	Position title - Titre du poste	Date
Print or type - Imprimer ou dactylographier		

April 9, 2019 - RM/Science Sampling Costs & MSE Update

10:30-11:30 am

Whitmore Building Conference Room

Attendees - Bryan Rusch, Amber Neuman, Jaclyn Cleary, Brenda Spence, Victoria Postlethwaite (on phone)

Biological Monitoring Costs

- Concerns brought up by industry during the F&B season about JOT costs. JOT suggested that the administrative fee was largely due to the biological sampling program administration and asked DFO if they could cover this cost rather than passing it on to industry.
- Last year DFO Science started a new re-structured contract with JOT. Asked them to lay out costs and they are being paid accordingly. Bidders put forth a charge per sample. The contract is for roe specifically. JOT gets paid \$[REDACTED]/sample for roe. For roe get 15-20 samples per fishery (area/gear type). There is no contract for F&B. JOT should not incur additional costs for sampling in F&B as observers are already on board and being paid for by industry. All sampling gear is provided by Science.
- This year Science paid JOT an additional \$2,200 to have samples delivered to PBS. What are the administrative costs that justify \$[REDACTED]/ton? What part of the sampling program is costing them more money? How often are they picking up samples?
- *Questions for Greg - What are the industry concerns? Has this administrative fee gone up in recent years? Other fees increased? Industry needs to work with JOT - have them lay out what their costs are and a justification for fees.
- The F&B quota / catch has been relatively stable for the last 8 years.
- This year 37 of the 45 F&B samples collected were processed, 8 samples were not processed due to poor labels/not being able to tie sample to catch. This is a similar ratio to the roe fishery.
- May be able to consider reduction in sampling frequency but unsure how this would reduce JOT/industry costs.
- Could potentially look at dockside collection of samples but again, how would this reduce overall cost? This would also diminish the credibility of the samples being collected onboard and being tied to a particular catch.
- If industry has concerns about observers collecting samples, this could be included in the licence conditions for mandatory sample collection.

Follow-up -

- This will be discussed at the DFO/JOT meeting on April 26. Jaclyn will be calling in for this portion of the meeting. DFO is not prepared to pay more as they are already adequately compensated for sampling costs. If JOT needs to cover rising operating costs they will need to have this discussion with industry. Note - Brenda may be in Ottawa for a tuna meeting on April 26. Bryan, Amber, Victoria will attend for RM.
- Amber to contact Greg to give him update. Industry can follow-up with JOT directly

South Coast Area Management Strategy Evaluation 2019

- There will be no simulations for the South Coast in 2019, next cycle will be 2020.
- Jaclyn is fully subscribed for North Coast this year (CC, PRD, HG rebuilding).

- RM can continue objectives discussions with SOG and WCVI First Nations and stakeholders throughout 2019, Jaclyn will likely be unavailable for most SCA meetings this year.
- ACTION - SCA meetings as requested/required. Try to work through objectives via email communication prior to meeting. Planned/Potential Meetings:
 - QARS - have committed to a spring meeting - SCA will work with QARS to set this up.
 - Ma-Nulth Herring Sub committee - May 23
 - Tla'amin First Nation
 - Qualicum First Nation
 - A-Tlegay
 - Baynes Sound Ecosystem Forum
 - Denman Island/Hornby Island Groups
- Provide information update to IMAWG in fall - not directly involved in objective setting/MSE process.
- ACTION - Brenda/Jaclyn to follow-up on HIAB objectives, will try to plan a meeting for June - earlier is better.
- ACTION - Jaclyn/Victoria - Work on 1 pager update on MSE for IHHPC. Provide update on MSE process and windows for ongoing discussions on objectives in 2019. This can be shared with SCA First Nations and stakeholders.
 - Jaclyn / Victoria had a good meeting with SFAB last week, can build on these materials.
- ACTION - Brenda/Victoria to revisit the MSE process document to ensure the key MSE meetings and materials are documented.



Fisheries and Oceans
Canada

Pêches et Océans
Canada

PURCHASE ORDER

This Purchase Order is made as of the contract award date below between Her Majesty the Queen in Right of Canada (hereinafter referred to as "Her Majesty") represented by the Minister of Fisheries and Oceans (hereinafter referred to as "Fisheries and Oceans Canada") and the supplier (as named herein).

SUPPLIER – FOURNISSEUR

SEAIR SERVICES 1990 LTD.
4640 INGLIS DRIVE
RICHMOND, BC V7B 1W4
Canada

ISSUED BY - PRÉPARÉ PAR

FISHERIES MGMT-SOUTH COAST
3225 STEPHENSON POINT ROAD
NANAIMO, BC V9T 1K3

Tel: 2507567257
E-mail: JANICE.MATTU@DFO-MPO.GC.CA

COMMANDE D'ACHAT

Cette commande d'achat est faite en date d'octroi de contrat ci-dessous entre Sa Majesté la Reine du chef du Canada (ci-après appelée "Sa Majesté") représenté par le Ministre des Pêches et Océans Canada (ci-après appelé "Pêches et Océans Canada") et le Fournisseur (tel qu'indiqué dans les présentes).

IMPORTANT

The Contract No. must appear on invoices, B/L, packing lists, correspondence and outside containers.
Le No. de contrat doit être indiqué sur les factures, les connaissements, les listes d'emballage, la correspondance et à l'extérieur des contenants.

Contract No./ No. de contrat. **F1582-180028**

Amend. No./No. de modif **1**

Contract Award Date/
Date d'octroi de contrat **25-FEB-2019**

Address Enquiries to - Adresser toute demande à

RUSCH, BRYAN

Tel: 2506273477
E-mail: BRYAN.RUSCH@DFO-MPO.GC.CA

This purchase document references Standing Offer Agreement Number /

Ce document d'achat fait référence à un numéro d'entente d'offre à commandes **E60SQ-020001/152/SQ**

SHIP TO/
EXPÉDIER À: **F1582**

BILL TO/
FACTURER À: **DFO.invoicing-facturation.MPO@canada.ca**

FISHERIES MGMT-SOUTH COAST
3225 STEPHENSON POINT ROAD
NANAIMO, BC V9T 1K3
Canada

DFO-ACCOUNTS PAYABLE/MPO-COMPTES PAYABLE
PO BOX 1901, STN A / CP 1901, STN A
FREDERICTON, NB E3B 5G4
Canada

Attn: **MATTU, JANICE**

Departmental Financial Codes - Codes financiers ministériel

5J130-411-120-0526-51484-6

Freight Terms - Conditions pour les frais de transport

Contract End Date - Date de fin du contrat

FOB – FAR

PST No. - N° de TVP Exemption

HST/GST - TPS /
TVH

EXTRA

Estimated Total Cost - Prix total prévu

7,500.00 CAD
(Tax excluded)/(Taxe exclus)

Continued/ suite...

Canada



2	of/de	3
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PURCHASE ORDER
(Continuation sheet)

COMMANDE D'ACHAT
(suite)

P.O. No. - N° de commande F1582-180028
Amend. No. - N° de modif. 1

The Vendor agrees to provide to Fisheries and Oceans Canada the goods or services identified at the specified prices and in accordance with all terms and conditions of this Purchase order.

Le Fournisseur accepte de fournir Pêches et Océans Canada les biens ou services identifiés dans les présentes en conformité avec les prix spécifiés et avec les modalités de cette commande d'achat.

Continued/ suite...

Item no. No Article	Description Description	Delivery Date Date de livraison	Quantity Quantité	U of I U de D	Unit Price Prix unitaire	Extended Cost Prix total prévu
1	Herring air charters as and when required	31-MAR-19	1	SUM-LUMP SUM/FORFA ITAIRE	5,000.00	5,000.00
2	Herring air charters as and when required	31-MAR-19	1	SUM-LUMP SUM/FORFA ITAIRE	2,500.00	2,500.00



PURCHASE ORDER
(Continuation sheet)

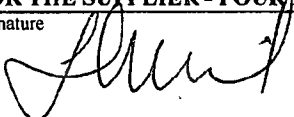
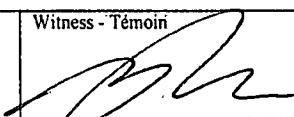
COMMANDE D'ACHAT
(suite)

P.O. No. - N° de commande
F1582-180028
Amend. No. - N° de modif.
1

The following documents form part of this Purchase Order. The supplier recognizes and agrees to all terms and conditions set out in this request, including:

Les documents ci-joints font partie intégrale de cette commande d'achat. Le Fournisseur convient et accepte tous les termes et conditions tels que décrits dans cette demande, incluant:

Continued/ suite...

FOR THE SUPPLIER - POUR LE FOURNISSEUR		
Signature 	Witness - Témoin 	Date Mar 23/2019
Print or type - Imprimer ou dactylographier Terry Hebert	Position title - Titre du poste Operations Manager	
Signature	Witness - Témoin	Date
Print or type - Imprimer ou dactylographier	Position title - Titre du poste	
APPROVED FOR THE MINISTER - APPROUVÉ POUR LE MINISTRE		
Signature	Position title - Titre du poste	Date
Print or type - Imprimer ou dactylographier		



Fisheries and Oceans
Canada

Pêches et Océans
Canada

PURCHASE ORDER

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SUPPLIER – FOURNISSEUR

SEAIR SERVICES 1990 LTD.
4640 INGLIS DRIVE
RICHMOND, BC V7B 1W4
Canada

ISSUED BY - PRÉPARÉ PAR

FISHERIES MGMT-SOUTH COAST
3225 STEPHENSON POINT ROAD
NANAIMO, BC V9T 1K3

Tel: 2507567257
E-mail: JANICE.MATTU@DFO-MPO.GC.CA

COMMANDE D'ACHAT

Cette commande d'achat est faite en date d'octroi de contrat ci-dessous entre Sa Majesté la Reine du chef du Canada (ci-après appelée "Sa Majesté") représenté par le Ministre des Pêches et Océans Canada (ci-après appelé "Pêches et Océans Canada") et le Fournisseur (tel qu'indiqué dans les présentes).

IMPORTANT

The Contract No. must appear on invoices, B/L, packing lists, correspondence and outside containers.
Le No. de contrat doit être indiqué sur les factures, les connaissements, les listes d'emballage, la correspondance et à l'extérieur des contenants.

Contract No./ No. de contrat.	F1582-180034
Amend. No/No. de modif	0

Contract Award Date/ Date d'octroi de contrat	13-MAR-2019
--	-------------

Address Enquiries to - Adresser toute demande à
PRESTON, PAUL

Tel: 2507204452
E-mail: PAUL.PRESTON@DFO-MPO.GC.CA

This purchase document references Standing Offer Agreement Number /

Ce document d'achat fait référence à un numéro d'entente d'offre à commandes E60SQ-020001/152/SQ

SHIP TO/
EXPÉDIER À: F1582

BILL TO/
FACTURER À: DFO.invoicing-facturation.MPO@canada.ca

FISHERIES MGMT-SOUTH COAST
3225 STEPHENSON POINT ROAD
NANAIMO, BC V9T 1K3
Canada

DFO-ACCOUNTS PAYABLE/MPO-COMPTES PAYABLE
PO BOX 1901, STN A / CP 1901, STN A
FREDERICTON, NB E3B 5G4
Canada

Attn: MATTU, JANICE

Departmental Financial Codes - Codes financiers ministériel

5J000-430-14C-0526-94018-6

Freight Terms - Conditions pour les frais de transport

Contract End Date - Date de fin du contrat

FOB – FAR

PST No. - N° de TVP Exemption

HST/GST - TPS /
TVH

Estimated Total Cost - Prix total prévu

2,100.00 CAD

(Tax excluded)/(Taxe exclus)

EXTRA

Continued/ suite...

Canada



PURCHASE ORDER
(Continuation sheet)

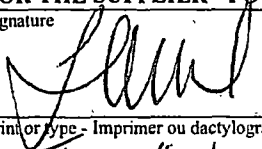
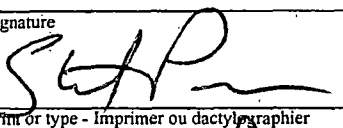
COMMANDE D'ACHAT
(suite)

P.O. No. - N° de commande	F1582-180034
Amend. No. - N° de modif.	0

The following documents form part of this Purchase Order. The supplier recognizes and agrees to all terms and conditions set out in this request, including:

Les documents ci-joints font partie intégrale de cette commande d'achat. Le Fournisseur convient et accepte tous les termes et conditions tels que décrits dans cette demande, incluant:

Continued/ suite...

FOR THE SUPPLIER - POUR LE FOURNISSEUR		
Signature 	Witness - Témoin	Date 19-March-19
Print or type - Imprimer ou dactylographier Terry Hiebert	Position title - Titre du poste Operations Manager	
Signature 	Witness - Témoin	Date 19 Mar 2019
Print or type - Imprimer ou dactylographier Stewart Pearce	Position title - Titre du poste Stock Assessment Technician	
APPROVED FOR THE MINISTER - APPROUVÉ POUR LE MINISTRE		
Signature	Position title - Titre du poste	Date
Print or type - Imprimer ou dactylographier		



PURCHASE ORDER

This Purchase Order is made as of the contract award date below between Her Majesty the Queen in Right of Canada (hereinafter referred to as "Her Majesty") represented by the Minister of Fisheries and Oceans (hereinafter referred to as "Fisheries and Oceans Canada") and the supplier (as named herein).

SUPPLIER - FOURNISSEUR

SEAIR SERVICES 1990 LTD.
4640 INGLIS DRIVE
RICHMOND, BC V7B 1W4
Canada

ISSUED BY - PRÉPARÉ PAR

FISHERIES MGMT-SOUTH COAST
3225 STEPHENSON POINT ROAD
NANAIMO, BC V9T 1K3

Tel: 2507567257
E-mail: JANICE.MATTU@DFO-MPO.GC.CA

COMMANDE D'ACHAT

Cette commande d'achat est faite en date d'octroi de contrat ci-dessous entre Sa Majesté la Reine du chef du Canada (ci-après appelée "Sa Majesté") représenté par le Ministre des Pêches et Océans Canada (ci-après appelé "Pêches et Océans Canada") et le Fournisseur (tel qu'indiqué dans les présentes).

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Contract No./ No. de contrat. **F1582-190001**

Amend. No./No. de modif **0**

Contract Award Date/
Date d'octroi de contrat **28-MAR-2019**

Address Enquiries to - Adresser toute demande à

Tel:
E-mail:

This purchase document references Standing Offer Agreement Number /

Ce document d'achat fait référence à un numéro d'entente d'offre à commandes **E60SQ-020001/152/SQ**

SHIP TO/
EXPÉDIER À: **F1582**

BILL TO/
FACTURER À: **DFO.invoicing-facturation.MPO@canada.ca**

FISHERIES MGMT-SOUTH COAST
3225 STEPHENSON POINT ROAD
NANAIMO, BC V9T 1K3
Canada

DFO-ACCOUNTS PAYABLE/MPO-COMPTES PAYABLE
PO BOX 1901, STN A / CP 1901, STN A
FREDERICTON, NB E3B 5G4
Canada

Attn: **MATTU, JANICE**

Departmental Financial Codes - Codes financiers ministériel

51880-810-120-0526-52101-6

Freight Terms - Conditions pour les frais de transport

Contract End Date - Date de fin du contrat

FOB - FAR

PST No. - N° de TVP Exemption

HST/GST - TPS /
TVH

Estimated Total Cost - Prix total prévu

5,000.00 CAD
(Tax excluded)/(Taxe exclue)

EXTRA

Continued/ suite...

Canada



PURCHASE ORDER
(Continuation sheet)

COMMANDE D'ACHAT
(suite)

P.O. No. - N° de commande	F1582-190001
Amend. No. - N° de modif.	0

The Vendor agrees to provide to Fisheries and Oceans Canada the goods or services identified at the specified prices and in accordance with all terms and conditions of this Purchase order.

Le Fournisseur accepte de fournir Pêches et Océans Canada les biens ou services identifiés dans les présentes en conformité avec les prix spécifiés et avec les modalités de cette commande d'achat.

Continued/ suite...

Item no. No Article	Description Description	Delivery Date Date de livraison	Quantity Quantité	U of I U de D	Unit Price Prix unitaire	Extended Cost Prix total prévu
1	Herring air charters as and when required	31-MAR-20	1	SUM-LUMP SUM/FORFA ITAIRE	5,000.00	5,000.00



Fisheries and Oceans
Canada

Pêches et Océans
Canada

Page

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PURCHASE ORDER
(Continuation sheet)

COMMANDE D'ACHAT
(suite)

P.O. No. - N° de commande

F1582-190001

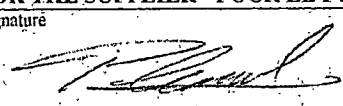
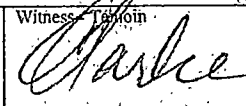
Amend. No. - N° de modif.


0

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Les documents ci-joints font partie intégrale de cette commande d'achat. Le Fournisseur convient et accepte tous les termes et conditions tels que décrits dans cette demande, incluant:

Continued/ suite...

FOR THE SUPPLIER - POUR LE FOURNISSEUR		
Signature 	Witness - Témoin 	Date April 1, 2019
Print or type - Imprimer ou dactylographier Peter Clarke / President	Position title - Titre du poste Admin	
Signature	Witness - Témoin	Date
Print or type - Imprimer ou dactylographier	Position title - Titre du poste	

APPROVED FOR THE MINISTER - APPROUVÉ POUR LE MINISTRE		
Signature 	Position title - Titre du poste Asst. Sec. / Admin	Date Apr 1 2019
Print or type - Imprimer ou dactylographier Polyn Forest		

Canada

000094

Postlethwaite, Victoria

From: Neuman, Amber
Sent: Wednesday, May 8, 2019 1:13 PM
To: Sylvia Chow (chows@jothomas.com); tallmand@jothomas.com; 'Karl Rekdal'; Postlethwaite, Victoria; Spence, Brenda; Rusch, Bryan; Bromley, Monte; Tomlin, Trevor
Subject: JOT / DFO Herring Monitoring Meeting Summary
Attachments: JOT-DFO Herring Post-Season-Apr 26, 2019-AGENDA-draft.docx; JOT-DFO Herring Meeting Minutes Apr 26 2019.docx; 2019 Herring Monitoring Post-Season-Meeting-Apr26, 2019.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Everyone,

Here are the meeting materials and minutes from our herring monitoring meeting on April 26. Thank you to everyone who participated and a special thank you to Victoria for taking notes! Please let me know if you have any questions.

As mentioned at our meeting, I will be moving to a new position with DFO aquaculture on May 15. If you have any herring related questions after that time, please contact Victoria and Bryan until a replacement is identified for my position. I enjoyed working with all of you and I look forward to our paths crossing again at some point in the future. If you would like to keep in touch, my email will remain the same.

Sincerely,

Amber Neuman

Resource Manager – Herring
South Coast Area, Resource Management Branch, Pacific Region
Fisheries and Oceans Canada | Government of Canada
Amber.Neuman@dfo-mpo.gc.ca | Tel: (250) 756-7246 | Cell: (250) [REDACTED]

s.16(2)(c)

Gestionnaire des Pêches - Hareng
Secteur de la Côte Sud, Gestion des ressources, Région Pacifique
Pêches et Océans Canada | Gouvernement du Canada
Amber.Neuman@dfo-mpo.gc.ca | Tél : (250) 756-7246 | Tél cell. : (250) [REDACTED]

AGENDA**DFO / JOT Herring Post-Season Meeting**

Friday, April 26, 2019 1:00pm-3:30pm

DFO Pacific Region Headquarters Conference Room 2D | 401 Burrard Street, Vancouver

WebEx Option: <https://pwgsc-nh.webex.com/meet/victoria.postlethwaitdfo-mpo.gc.ca>

Dial-in Number: 1-877-413-4790, Code # [REDACTED] (also on WebEx)

Meeting Objectives:

- Review of 2018/2019 herring season monitoring program.
- Identify and discuss key management issues to bring forward to DFO / Industry Herring post-season meetings.

Time	Item (Objective)	Lead
1:00-1:05	Welcome, introductions, review of agenda and objectives	DFO RM
1:05-1:20	Monitoring / Biological Sampling Costs	JOT DFO Science
1:20-2:15	Food & Bait / Special Use	DFO RM and C&P JOT
	a) Overview of 2018-2019 Fisheries	DFO RM / JOT
	b) Definition / Threshold for Release <i>Intention of COL to retaining all fish after pumping has commenced is to deter intentional release of fish. Not meant to encompass accidental release (e.g. hole in net). How should non-intentional releases be handled? What is the threshold for ASO reporting (e.g. 0, 100-500, 500+, other)?</i> <ul style="list-style-type: none"> • Review Licence Conditions, IFMP, JOT Manual. • Provide recommendations for changes to wording in documents and/or ASO training to meet intention. 	DFO RM and C&P
	c) Validating fish caught in different areas <i>Should there be a condition requiring fish caught from different subareas to be held in different holds for validation? E.g. in 2018 an example of 1 fishing trip with catch in 2 subareas (17-18 and 29-5) - just 1 validation for all. JOT used the skippers estimate toward the total catch in 29-5. Is this sufficient?</i>	DFO RM
	d) Packing Conditions of Licence - update	DFO RM
	e) Reconciling licensing records with monitoring subscription / Timing of conversions <i>Issues with some licences being fished before they were renewed and/or licences fished by undesignated vessel. Licensing provided daily updates to RM and JOT. How can we avoid this in the future? Who is responsible for tracking valid licences are being fished (RM or JOT)? Look at provision to allow a period of time to cover off catch i.e. allow conversions after fishing (24hr?) – consider changes to licence condition or policy.</i>	DFO / JOT
	f) ASOP policy/regs regarding working environment and health issues for ASOs <i>Specifically exposure to smoke (from tobacco and other substances) inside a vessel.</i>	JOT
	g) Harassment of ASO and DO <i>Is this happening broadly or are there isolated incidents/specific individuals or companies? How can this be addressed/mitigated? What</i>	JOT/ DFO C&P

	<i>is DFO's role? DFO Authority - Fisheries (General) Regulations outline reasonable assistance to an observer. This does not cover harassment specifically but there may be a violation if an observer is prevented from performing duties.</i>	
	h) By-catch accounting procedures (ASO / DO)	JOT
	i) Other	
2:15-2:30	Health Break	
2:30-3:15	Roe herring	DFO RM and C&P JOT
	a) Overview of 2019 Fishery	DFO RM / JOT / C&P
	b) Licensing Timelines	DFO RM
	c) Vessel hold checks / C&P Presence at Offloads	JOT / DFO C&P (Lower Fraser)
	d) DMP "leakage" threshold <i>At what level does the DMP need to account for fish dropping off a belt or out of other parts of a conveyance system...is it 0, 100, 500 or xxx lbs...?)</i>	JOT / DFO RM, C&P
	e) Mobile ASO Pilot Phase 2 – 2020 <i>Brainstorm ideas, identify individuals to carry out this work throughout the coming year.</i>	DFO RM / JOT
	f) Other	
3:15-3:30 /	Action Items /Recommendations Review	
	Identified Future Work	
3:30	Meeting Adjourned	

DFO & JOT Herring Monitoring Review 2019

April 26, 2019, 1:00-3:30pm

401 Burrard St, Vancouver

Attendees:

DFO – Amber Neuman, Bryan Rusch, Victoria Postlethwaite, Monte Bromley (phone), Trevor Tomlin (phone)

JOT – Doug Tallman, Sylvia Chow, Karl Rekdal

Objective:

- Review of discussions today will be brought forward to HWG/IHHPC/HIAB

Review of SOG fisheries

- o **Amber to add 29-5 catch cap information to the slides**
- o Good spatial and temporal distribution of Food and Bait fishery
- o Very few F&B occurrences

Seine COL "Release"

- Escapement of herring over the cork line does not constitute an occurrence. The wording for the COL and the manual is sufficient, but the ASOs just need to be trained as such
- If there is a substantial amount of fish that are entering the environment dead we still need a record of it, just not necessarily from an enforcement perspective
 - o What could this look like?
- The observers have not been calling it a major occurrence in majority, up to now escapement has been observed and reported if there is a major escapement from the net. This is an occurrence but is not a major one reported to the Radio Room.
 - o We have never had the over the cork line issue in previous years
- **JOT to add "other" occurrence category on occurrence report form for escapements**
 - o JOT completes IR, DFO is notified
 - o **JOT will include change in syllabus/manual; provide manuals to DFO to review, and then review with ASO**
 - o Escapement wording likely does not need a certain amount; it would be too difficult for an observer to
- These escapements are really caused by sea lions so that is likely why we are seeing an increased number
- **DFO/JOT to inform HIAB of this change**

Validating fish caught in different areas

- Need an accurate record of what is caught in Area 29-5 to ensure we know how close we are to the cap
- Once this past season, one fisher fished in this area and another area under one validation so had to use skippers estimate of what was fished in 29-5
- Considering a few options about validating, we are going to put this forward to them
 - o Would likely go with if you fish in 29-5 you can't fish in another area until validating, or all fish in the hold accounts towards 29-5
 - o Wouldn't need a new license condition because it is not happening very much
 - o Area 29-5 is very close to an offload plant
- Either way will work for JOT to deal with
- **DFO and HIAB will work on this and report back to JOT**

Packing Conditions

- Food and Bait and SU currently are not included in packing conditions
- Packers being used for F&B fishery are currently having to be designated in the fishery
- Revise conditions of license for these fisheries; will be in packing conditions for 2020
 - o Any vessel based licenses for that year will be renewed for these conditions
- For SU this will only apply really to ZY3/4
- **DFO will work on this and report back to JOT**

Reconciling licensing records with monitoring subscription/timing of conversions

- Licensing provides daily updates to RM/JOT
- If a vessel has a monitoring subscription on it, could get NOLS to flag that the license can be issued? Would be useful to have NOLS ID this
- The daily update spreadsheets from Bob were really helpful on but if they have a monitoring subscription that is fine with JOT
- Need to ensure the fishers have a valid license before they fish, trying to get them to get their license before calling in to get monitoring subscription
- Education piece for fishers to make sure the license is renewed and paid prior to seeking monitoring
- From RM, we are there to make sure they don't go over
- Sylvia checks when they submit a monitoring subscription that they have a license
- Often few repeat offenders; enforcement issue.
 - o **Warning letter could be issued from C&P to those same offenders**

ASP policy/reg regarding work environment

- Last few years there has been an enhanced realization that the work environment needs to be cleaner and healthier

- Global ASOP conference last month in Halifax discussed smoking on board; if there is an issue on board there the company will refuse an observer
 - o JOT will refuse to put an observer on board should this continue if there is harm to physical or health safety; fishers will not have another option
 - o High sensitivity to this; not just cigarette smoke, marijuana also smoked
- Worksafe BC issue
- Fishery general regulations state there must be a suitable workplace; next step would be to refuse work
- DFO would support this; this is a national priority at the national ASOP meeting
 - o **Approach will be on a case by case basis by JOT and DFO will be notified should anything happens**
 - o JOT would notify DFO if this refusal happened
- Bruce Logan (WorkSafe BC) notified by Amber, asked about regulations
- **Education piece from both DFO and JOT to HIAB pre-season**

Harassment

- Global ASOP conference also spoke about this
- Few occurrences near the beginning of the program that resulted in some harassment, sometimes brought up this year that crew would not like things they've done
- DO's are being bullied at the dock, are phoned that you don't send the same person
- If they are preventing observers from doing their job that is an issue
- **DFO to educate HIAB pre-season; vast majority of fishers are excellent to work with**
- **JOT reserves the right to refuse work until fisher can prove safety on board will be maintained**

By-catch accounting procedures

- Want to make sure that there is a better procedural way to monitor by-catch
- At dockside, the observers are at the scales so may not see the by-catch
- What procedure could we put into place to add to the observers methodology?
 - o Sylvia scanned all observers and found that there was very minimal bycatch
 - o Put in procedures
 - o We know there is little bycatch but need to document
- **JOT to look at manual and reporting forms to see how to incorporate this for next season; report back to DFO**

Roe to Food and Bait Conversions

- Timeline from time of catch to convert the licenses to cover their overages – considering this to give the fishers more flexibility and bring them into compliance
- Herring subcommittee on these license conditions will be considering this (give 24-48 hours to cover their overages prior to fishing again)

- DFO will keep JOT informed
- Sorting issue will also be added to license conditions and Karl, Victoria, and C&P officer will go up to Campbell River over the summer or early fall to speak to Walcan

Monitoring/Biological Sampling Costs

- Biological sampling has increased over the last few years
- Many costs to the program that have not been incorporated into charges
- Charges would be anything over 10 samples; currently charging the same as with roe herring
- Did special use take any samples?
 - o Victoria to follow up with Kristen
- DFO to review sampling guidelines to ensure good sampling coverage
- Science is not willing to pay more so industry will have to pay
- DFO to let industry know that increased sampling is a DFO led decision
- DFO to help with daily pick-up of samples where possible

Roe Herring

- Trying to improve IFMP and licensing timelines
- Did not have area selection this year but was still a time crunch because of conversions; most companies will submit these before the Food and Bait fishery ends if we have an earlier soft deadline
 - o Seines are usually; gillnets are the issue so we could move the deadlines earlier for them as they don't participate in the Food and Bait fishery
- Pool lists are the main issue with JOT; until they have that they can't move forward

C&P/JOT vessel hold checks

- Tell plants what issues are; if we cannot ensure that the observers are not safe they do not get an observer
- Transfer of observers at-sea is a safety concern but that has gone down a lot
- JOT has strict procedures for safety with training and documents
- **Lack of willingness from the plant to fix the issue; they are not going to do it until we make them so we can tell them no observer**
- Fishery opened on a weekend so had poor communication on the weekend
- C&P was very responsive to JOT and helped a lot
 - o Inspections of plants pre-season were done but not sure why there wasn't inspections during season
- JOT did receive a letter in 2017/18 from the head of C&P to indicate that we needed to do vessel hold checks
- First day out is critical to getting them on-board; C&P couldn't put out an overtime patrol

- At some plants hold checks are impossible because you have docks where at certain times there are a 15 ft drop and no space to get onto the boat
 - Plants are aware of the issue and C&P has complained
 - Solution is they don't get an observer until they can provide a safe workplace for the staff
- This year, an observer would watch a crew member take a photo of the hold and show the observer
 - Defeats the purpose of having an observer there
- Plant does not want to spend money and it is not their workers who are at risk
- Frustrating because it's not the first time they've been told
- **The industry knows but we could make them aware that observers may be pulled; DFO to bring forward to herring working group and develop plan. DFO to educate industry and coordinate with WorkSafe**
- **Fairly late engagement with Lower Fraser; DFO to engage them at our pre-season meetings to start earlier dialogue and prepare to have officers available during that time**

DMP Leakage Threshold

- Some leakage off conveyor belts
- Observers have noticed that there was whole fish as "leakage" – resulting in about 4-500 lbs of fish per offload. This is often at plants with a "descaler" – provides an offshoot for herring to spill on the floor.
- Reports go out to industry and they notice 500 lbs mistakes
- Pre-season addition to notice about "what is fish", especially for roe herring.
- This is not the case at every plant
- JOT needs a guideline to let their DOs know, and apply this
- **DFO to discuss with working group what the threshold is; discards may also need to be accounted for – DFO to report back to JOT prior to the season**

Mobile ASO Pilot/Monitoring Changes

- How can we manage these fisheries without compromising the integrity of data and monitoring, and meet public perceptions?
- Some ideas are: mobile ASO, VMS and AIS, video monitoring
- ASO pilot: JOT felt the program accomplished a lot, didn't provide as much as we would have liked as the fishery ended. Technology on the back office (Harvey, JOT programmer), platform was a testing platform
 - Transmission capability coming forward and will be increase a lot
 - Cameras are retrospective
 - Satellite telemetry is real time and that's what you need
 - Utilizing video coverage for observers
 - Cameras don't work well at night

- Phase 2 of the ASO pilot – need to improve on back office and understand how a larger scale would work.
 - o One issue was getting data to DFO
 - o Purpose built platform needed that would satisfy the basic requirements
- As a company JOT is moving towards that direction and provide these data requirements
 - o Need something that work well in areas that don't have great satellite needs
 - o JOT is supportive of this



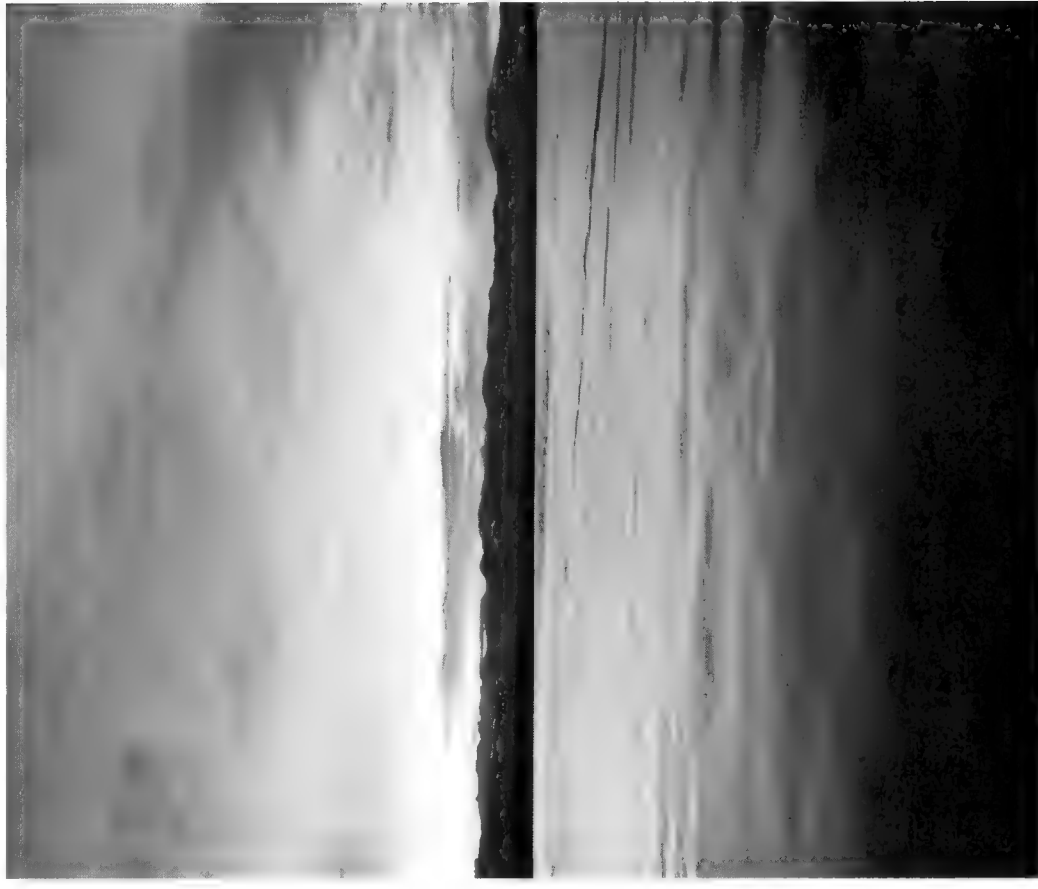
Fisheries and Oceans
Canada

Pêches et Océans
Canada

Herring Monitoring Review

April 26, 2019

DFO / JOT



Welcome / Introductions / Objectives

- Review of 2018/2019 herring season monitoring program.
- Identify and discuss key management issues to bring forward to DFO / Industry Herring post-season meetings.

Agenda Item:

Seine (F&B / SU / Roe) COL – “Release”

“Once the pumping of herring from the seine net has commenced, all herring from that set shall be retained, unless the set must be released due to vessel safety concerns.”

- **Background:**

- Condition was introduced to prevent fishers from oversetting, then intentionally releasing the remainder of the set once vessel capacity was reached.
- Not intended to capture releases that are non-intentional - E.g. cork line submerged / net tears and fish escape.
- ASO reports have included these non-intentional escapes as “major occurrences”, called-in to radio room.

- **Questions:**

- Does the COL adequately capture the intent?
- How should escapes be captured in ASO record?
- Is the JOT manual clear on what constitutes a release?
- Should there be changes to ASO training?

- **Recommendation:**

- Update ASO training
- Include “other” occurrence provision for escapes
 - Rationale – still want an accurate record of events that are happening.
- Report to HWG and HIAB

Agenda Item: Review 2018-19 Regulatory Challenges Seine (F&B / SU / Roe) COL – “Release”

ASO Manual – 3.6 Occurrence Reporting:

An occurrence is defined as any action and resulting consequence taken by the vessel operator or crew which compromises the integrity of the monitoring procedures as described in this manual.

Major at-sea occurrences for this fishery include:

- 1) Set released after pumping begins.
- 2) Interference with observer duties.
- 3) Fishing in closed areas or times.
- 4) Fishing without observer coverage (if known).
- 5) Offload without an observer present (if known).

In the event of a Major Occurrence listed above, the ASO must immediately contact the DFO C&P Radio Room

Other Occurrences include:

- 1) Set released after set prepared for pumping (straps on).
- 2) Marine mammal mortality (if observed).
- 3) Missing or inaccurate information recorded on Set Log Record.

PROPOSED→4) Fish escapement (e.g. tear in net, corkline submerged)

Other occurrences should be reported to the Program Manager before the end of the next business day. Details of each occurrence will be recorded/reported...

Agenda Item – Food & Bait / SU

Validating fish caught in different areas

- Overview
 - Fish caught in different areas. E.g. in 2018 an example of 1 fishing trip with catch in 2 subareas (17-18 and 29-5) - just 1 validation for all. JOT used the skippers estimate toward the total catch in 29-5. Is this sufficient? Only a concern for catch cap area. Either offload all from 29-5 OR if fishing in 2 areas entire validation counts toward catch cap.
- Discussion
- Recommendation
 - Carry forward to DFO HWG and HIAB. Keep JOT informed of requirements.

Agenda Item – Food & Bait / SU

Packing Conditions - Update

- Background:
 - F&B and SU not currently in “D” licence or in vessel based packing conditions. Packers being used for F&B fishery are currently being designated as a F&B fishing vessel.
- Recommendation
 - Revise 2020 category “D” packing conditions and vessel based licence packing conditions to include all herring.
 - Replace “Roe Herring” with “Herring”.
 - Revised 2020 F&B & SU COL

Agenda Item – Food & Bait / SU

Reconciling licensing records with monitoring subscription / Timing of conversions

- Overview:
 - Issues with some licences being fished before they were renewed and/or licences fished by undesignated vessel. Licensing provided daily updates to RM and JOT. How can we avoid this in the future? Who is responsible for tracking valid licences are being fished (RM or JOT)?
 - Look at provision to allow a period of time to cover off catch i.e. allow conversions after fishing (24hr?) – consider changes to licence condition or policy.
- Discussion:
- Recommendation:
 - Possibility to issue warning letters if there are repeat offenders.

Agenda Item – Food & Bait / SU

ASOP policy/regs regarding working environment and health issues for ASOs

- Overview:
 - Specifically exposure to smoke (from tobacco and other substances) inside a vessel.
- Discussion:
- Recommendation:
 - DFO supports service provider in refusing to work in unhealthy/unsafe work environments.
 - JOT will notify DFO if there is a refusal.
 - Education piece at HLAB pre-season (DFO & JOT).
 - Safety issues at plants – JOT provide recommendation to plants to improve safety. If not safe, refuse service.

Agenda Item – Food & Bait / SU

Harassment of ASO and DO

- Overview:
 - Is this happening broadly or are there isolated incidents/specific individuals or companies?
 - How can this be addressed/mitigated?
 - What is DFO's role? DFO Authority - Fisheries (General) Regulations outline reasonable assistance to an observer. This does not cover harassment specifically but there may be a violation if an observer is prevented from performing duties.
- Discussion:
 - Came up at national ASOP conference.
- Recommendation:
 - DFO supports JOT in a safe work environment. If prevented from performing duties, will refer to C&P.
 - Education at HIAB pre-season

Agenda Item – Food & Bait / SU

By-catch accounting procedures (ASO/DO)

- Overview:
 - Processors want to get ahead of bycatch concerns – due diligence.
 - Monitor by-catch in a more structured way.
 - At-sea
 - Off-loads
- Discussion:
- Recommendation:
 - JOT will do up an improvement form to include a more structured way of recording bycatch. DFO will review.

BREAK – 2:05-2:15

Agenda Item – Food & Bait / SU Roe to F&B Conversions

- Overview:
 - Possibility of including a COL or policy that requires conversions within 24-48 hr of landing.
- Recommendation:
 - DFO reviewing feasibility and will inform JOT if change before next season.

Agenda Item:

Monitoring / Biological Sampling Costs

- Discussion
 - Concerns brought up by industry during the F&B season about JOT costs and biological sampling program administration costs. .
 - Many different costs to allow the program to function.
 - How often does JOT need to pick-up samples from processors?
 - Daily pick-up of samples often required.
 - Considerations for COL requiring collection of samples
- Recommendations
 - DFO look at sampling guidelines – communication with industry about why samples are collected.
 - DFO can help with transport samples.

Agenda Item – Roe Herring Overview of 2019 Fishery

- Overview:
- Discussion:

Agenda Item – Roe Herring Licensing Timelines

- Overview:
- Discussion:
- Recommendation:
 - Gillnets can be completed earlier. Have earlier deadline for Area Selection and Pool Designation

Agenda Item – Roe Herring Vessel Hold Checks / C&P Presence at Offloads

- Overview:

- JOT asked that C&P be present during the first day of the season at the designated landing sites in Metro Vancouver, French Creek and Quadra Island. C&P presence creates an environment where observers are given the opportunity to safely and effectively complete their hold check duties at the point of offload.
- The roe fishery is high intensity - Vessels/processors will move along quickly before a hold check can be completed. This check can normally be done in about 5 minutes but some sites pose different logistical challenges.
- Recommendation from salmon Area B & H to have C&P present on first day.

- Challenges

- Fishery opening on the weekend – Fishery Officers not available.
- Sometime hold checks are impossible – plants are aware of the issue.
- Range of safety issues across plants and employee abilities
- Photo of hold – defeats purpose of having observer there.

- Recommendation:

- Put pressure on plant to make the holds accessible. Withhold observer coverage if it is not safe. No observer until they correct the problem.
- Bring forward to Herring Working Group – How can DFO support JOT? Bring up with industry. Refer to Worksafe BC.

Agenda Item – Roe Herring DMP Leakage Threshold

- Overview:
 - At what level does the DMP need to account for fish dropping off a belt or out of other parts of a conveyance system...is it 0, 100, 500 or xxx lbs....?)
 - We don't have a defined threshold.
- Discussion:
- Recommendation:
 - Preseason education – all fish/fish parts must be validated.
 - Bring forward to Herring Working Group – 100 lbs (e.g. 2 buckets)?

Agenda Item – Roe Herring

Mobile ASO Pilot Phase 2 -2020 / Alternate Monitoring Considerations

- **Overview:**
 - Mobile ASO pilot project in 2018 with JOT/A-Tlegay.
 - Send GPS coordinates and messages to remote Fishery Manager.
 - Showed some utility but could not replace the management platform.
 - Considerations for phase 2.
 - Brainstorm ideas, identify individuals to carry out this work throughout the coming year.
- **Discussion:**
 - Need to up scale of pilot to larger scale fishery
 - Would require a purpose built platform.
 - Satellite/broadband advancements for transferring data in real time.
- **Recommendation:**
 - Need real-time data, cameras are retrospective. Cameras also don't work well at night.

Agenda Item: Review 2018-19 Regulatory Challenges

Vessel Tracking - COL

- Background:
 - Currently no requirement for vessel tracking in any herring fishery.
 - When an ASO is required, receive GPS SPOT location for each set.
 - Most vessels have AIS but are below the 24m threshold that makes it mandatory so many vessels will turn AIS off during the fishery.
 - Monitoring challenges and safety challenges, especially when fishing at night and several vessels on-grounds (i.e. roe seine).
 - Review possibility of including condition of licence to all seine licences (SU, F&B, Roe) requiring use of AIS or Vessel Monitoring System for monitoring and control of the fishery (e.g. VMS requirements for Tuna).
 - What would be required? What are the costs/benefits?

- Recommendation:

Wrap-Up Questions and Discussion

- Action Items
- Carry forward to IHHPC/HIAB
- Review Upcoming Meetings
 - May 1 - IHHPC - Nanaimo
 - May 2 – HIAB - Vancouver

Questions and Discussion

Discussion



Seigneurie, Niverville, 2019 - 2019 - 2019 - 2019
2019 - 2019 - 2019 - 2019

SOG Food & Bait Fishery 2019

- Quota: 7,710 short tons
- Fishery Opening: Nov 7, 2018 – Feb 12, 2019
- Roe to Food & Bait Conversions:
 - 43 conversions @ 39.7658 short tons = 1,710 short tons
- Number of licences: 252
- Quota per licence: 23.8095 short tons
- 6 occurrences:
 - 2 releases (25 tons), 2 sea lion interactions (4 fatalities), 2 other

Area	Subareas	Landings (Short Tons)
14	14-1, 14-3, 14-4	1,512
17	17-12, 17-13, 17-18, 17-19	3,680
29	29-5	2,311
Total		7,503

SOG Special Use Fishery 2019

- Personal use, sport/commercial bait, human food, zoo and aquarium
- Fishery open in SOG only
 - November 7 - February 15 (all quota)
 - May 1 - October 1 (≤ 3 ton quota only)
 - October 1 - November 7 (reopens to quota ≥ 3 tons)
- Number of licences: Unlimited (until quota reached)
- Most catch areas cannot be released due to third party rule

License Category	Quota	Quota Issued	Catch
ZX	25	0*	0*
ZY1	617	445*	280*
ZY2	0	0	0
ZY3	150	150	150
ZY4	110	110	110
Total	902	705*	540*

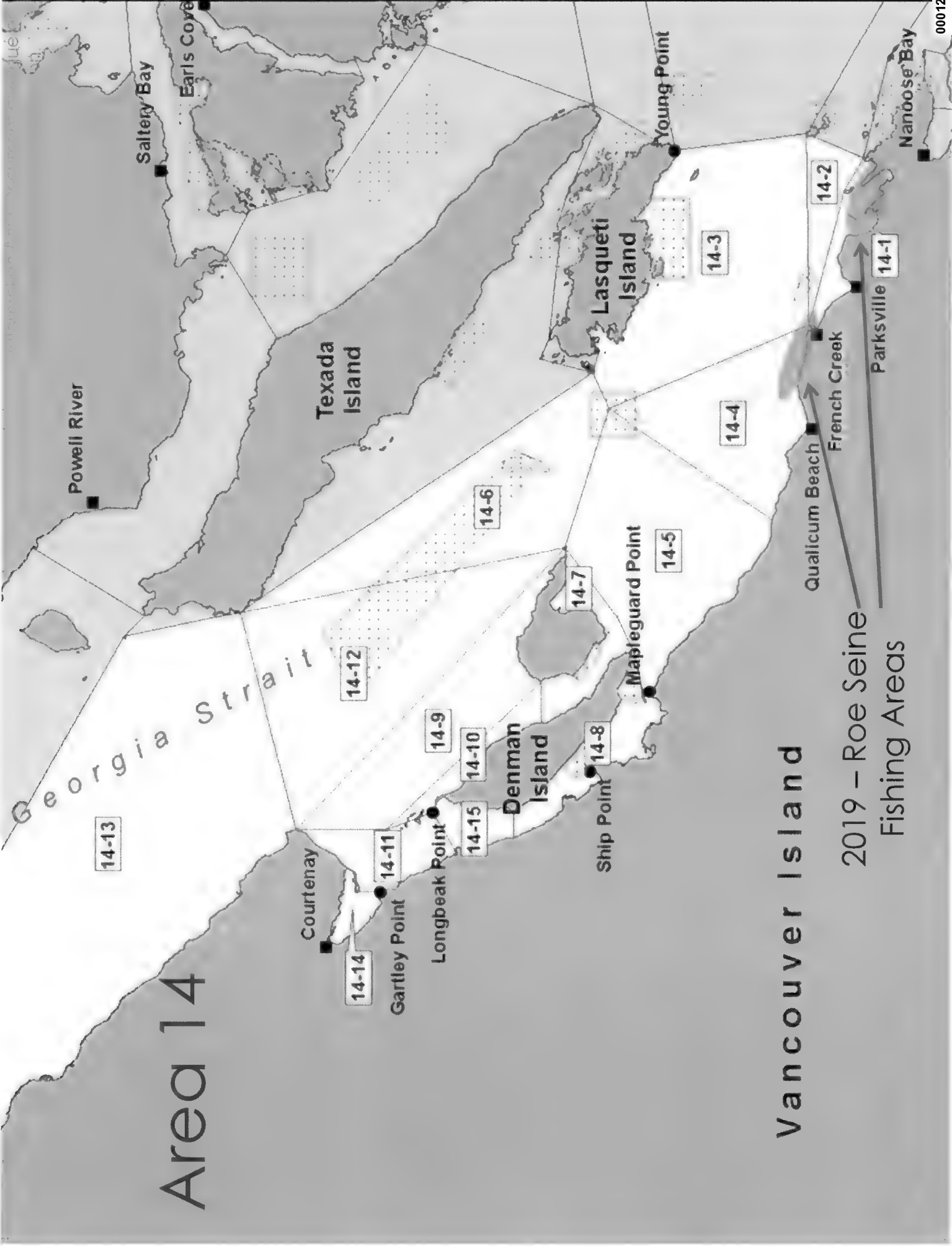
23

*to date

SOG Roe Seine Fishery - 2019

- Quota: 8,311 short tons
- Fishery Opening: March 9 to March 15, 2019
- Number of licences: 209
- Quota per licence: 39.7658 short tons
- Licenced Pools: 7
- Management Platform: Canadian Shore (Feb 27-Mar14)

Fishing Dates	Location	Landings (Short Tons)
March 9 & 10	NW Bay to Brant Pt Subarea 14-1	4,325.8
March 13	Qualicum Beach to French Creek Subareas 14-1, 14-2, 14-3, 14-4	2,852.1
Total		7,177.9



Area 14

Vancouver Island

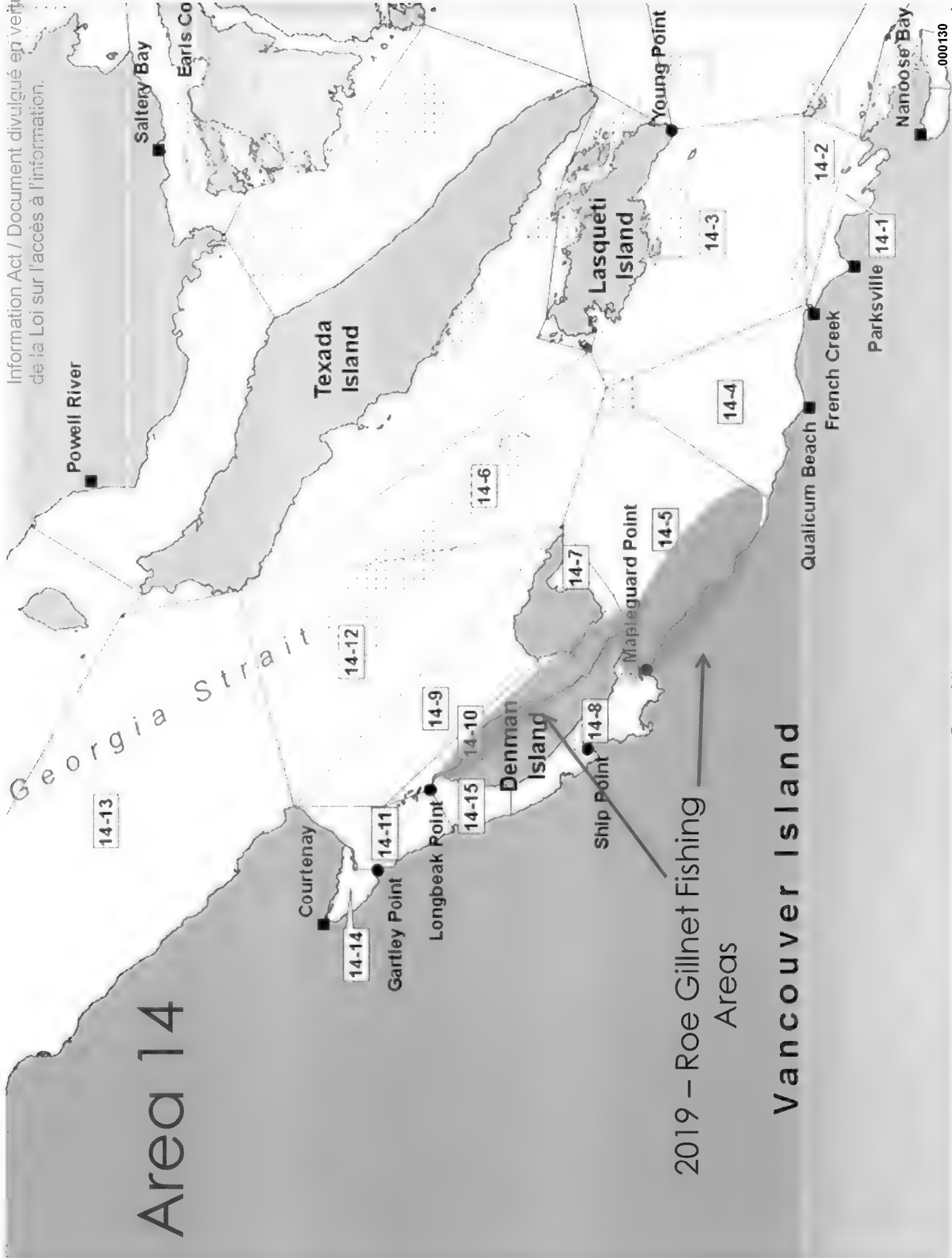
2019 – Roe Seine
Fishing Areas

SOG Roe Gillnet Fishery - 2019

- Quota: 11,472 short tons
- Fishery Opening: March 15 to April 4, 2019
- Number of licences: 1,190
- Quota per licence: 9.640 short tons
- Licenced Pools: 14

Fishing Dates	Location	Landings (Short Tons)
March 15 – March 21 Apr 1	East Coast of Denman South Coast of Denman Vancouver Island Shoreline – Mapleguard Pt to Qualicum Beach Subareas 14-5, 14-7, 14-8, 14-10	8,373.7

Area 14



2019 - Roe Gillnet Fishing
Areas

Vancouver Island

SOG Quota & Catch (Short Tons) 2019

Fisheries	Quota	Catch
Food and Bait	7,710	7,503
FSC*	35	1
Special Use*	902	540
Roe Seine	8,311	7,178
Roe Gillnet	11,472	8,374
TOTAL	28,430	23,596

*Based on reports to-date, final catch numbers not available.

Postlethwaite, Victoria

From: Postlethwaite, Victoria
Sent: Wednesday, April 10, 2019 11:19 AM
To: Neuman, Amber; Cleary, Jaclyn; Spence, Brenda; Rusch, Bryan
Subject: RE: Biological Sampling Costs / SCA MSE Update - Meeting Summary - Apr 9

Hi Amber,

Thanks for sending this around, looks good to me. Just another action was that Brenda and I are going to revisit the MSE process document we've started, to ensure the key MSE meetings and materials are documented.

Victoria

From: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Sent: Wednesday, April 10, 2019 11:00 AM
To: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>; Spence, Brenda <Brenda.Spence@dfo-mpo.gc.ca>; Postlethwaite, Victoria <Victoria.Postlethwaite@dfo-mpo.gc.ca>; Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>
Subject: Biological Sampling Costs / SCA MSE Update - Meeting Summary - Apr 9

Hi folks,

I've just put a few rough note together from yesterday's meeting to make sure I don't lose anything. Please take a quick look and let me know if I've missed anything.

Thanks!

Biological Monitoring Costs

- s.20(1)(b)
- s.20(1)(c) Concerns brought up by industry during the F&B season about JOT costs. JOT suggested that the administrative fee is largely due to the biological sampling program administration and asked DFO if they could cover this cost rather than passing it on to industry.
- Last year DFO Science started a new re-structured contract with JOT. Asked them to lay out costs and they are being paid accordingly. Bidders put forth a charge per sample. The contract is for roe specifically. JOT gets paid [REDACTED]/sample for roe. For roe get 15-20 samples per fishery (area/gear type). There is no contract for F&B. JOT should not incur additional costs for sampling in F&B as observers are already on board and being paid for by industry. All sampling gear is provided by Science. This year Science paid JOT an additional \$2,200 to have samples delivered to PBS.
 - Questions for JOT - What are the administrative costs that justify [REDACTED]/ton? What part of the sampling program is costing them more money? How often are they picking up samples?
 - Questions for Greg/HIAB - What are the industry concerns? Has this administrative fee gone up in recent years? Other fees increased? Industry needs to work with JOT - have them lay out what their costs are and a justification for fees.
 - The F&B quota / catch has been relatively stable for the last 8 years.
 - This year 37 of the 45 F&B samples collected were processed, 8 samples were not processed due to poor labels/not being able to tie sample to catch. This is a similar ratio to the roe fishery.
 - May be able to consider reduction in sampling frequency but unsure how this would reduce JOT/industry costs.
 - Could potentially look at dockside collection of samples but again, how would this reduce overall cost? This would also diminish the credibility of the samples being collected onboard and being tied to a particular catch.
 - If industry has concerns about observers collecting samples, this could be included in the licence conditions for mandatory sample collection (similar to prawn).

Follow-up -

- This will be discussed at the DFO/JOT meeting on April 26. Jaclyn will be calling in for this portion of the meeting. DFO is not prepared to pay more as JOT are already adequately compensated for sampling costs. If JOT needs to cover rising operating costs they will need to have this discussion with industry. Note - Brenda may be in Ottawa for a tuna meeting on April 26. Bryan, Amber, Victoria will attend for RM.
- Amber to contact Greg to give him update. Industry can follow-up with JOT directly

South Coast Area Management Strategy Evaluation 2019

- There will be no simulations for the South Coast in 2019, next cycle will be 2020
- Jaclyn is fully subscribed for North Coast this year (CC, PRD, HG rebuilding).
- RM can continue objectives discussions with SOG and WCVI First Nations and stakeholders throughout 2019, Jaclyn will likely be unavailable for most SCA meetings this year.
- ACTION - SCA meetings as requested/required. Try to work through objectives via email communication prior to meeting. Planned/Potential Meetings:
 - QARS - have committed to a spring meeting - SCA will work with QARS to set this up.
 - Ma-Nulth Herring Sub committee - May 23
 - Tla'amin First Nation
 - Qualicum First Nation
 - A-Tlegay
 - Baynes Sound Ecosystem Forum
 - Denman Island/Hornby Island Groups
 - IMAWG – provide update at fall herring meeting, not directly involved in objective setting/MSE process.
- ACTION - Brenda/Jaclyn to follow-up on HIAB objectives, will try to plan a meeting for June - earlier is better.
- ACTION - Jaclyn/Victoria - Work on 1 pager update on MSE for IHHP. Provide update on MSE process and windows for ongoing discussions on objectives in 2019. This can be shared with SCA First Nations and stakeholders.
 - Jaclyn / Victoria had a good meeting with SFAB last week, can build on these materials.

Amber Neuman

Resource Manager – Herring

South Coast Area, Resource Management Branch, Pacific Region

Fisheries and Oceans Canada | Government of Canada

Amber.Neuman@dfo-mpo.gc.ca | Tel: (250) 756-7246 | Cell: (250) [REDACTED]

s.16(2)(c)

Gestionnaire des Pêches - Hareng

Secteur de la Côte Sud, Gestion des ressources, Région Pacifique

Pêches et Océans Canada | Gouvernement du Canada

Amber.Neuman@dfo-mpo.gc.ca | Tél : (250) 756-7246 | Tél cell. : (250) [REDACTED]

Postlethwaite, Victoria

From: Neuman, Amber
Sent: Friday, April 5, 2019 3:28 PM
To: Cleary, Jaclyn
Cc: Daniel, Kristen; Spence, Brenda; Rusch, Bryan; Postlethwaite, Victoria
Subject: RE: Biological Sampling Costs - F&B / Roe Fishery

Hi Jaclyn,

I believe that what JOT was suggesting was that the volume of samples has gone up with the increased catch in the F&B fishery. When they were only catching a few hundred tons in the fishery, there were only a handful of samples to collect and deliver. In recent years, with the increased catch, there's over 50 samples collected throughout the fishery. I think the administrative fee is coming from Karl having to coordinate, pick-up samples and deliver to Science, so I think the fee that they're charging industry is basically paying for his time. Since RM is not involved in the biological sampling aspect of the ASO program, I'm not really comfortable speaking to it. I think it would be helpful for you to call-in to the meeting on April 26 to provide input on what the Science contract provides to JOT and they can articulate if/how that is not meeting the needs of the program.


I'm going to send out the draft agenda for the April 26 meeting shortly with the meeting request. I've put this item first so that you can just call in for that portion of the meeting. I don't think the rest of the meeting would be relevant for you to attend unless you want to.

I'll also request JOT to provide more information on their costs and how they are coming up with the additional fee that is charged to industry. I expect that this is also going to come up at HIAB.

Let me know if you think you can call into the meeting on April 26th. If not, I think we'll have to delay that agenda item to a time when you are available.

Cheers,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) 

s.16(2)(c)

From: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>
Sent: 2019-March-27 3:48 PM
To: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Cc: Daniel, Kristen <Kristen.Daniel@dfo-mpo.gc.ca>; Spence, Brenda <Brenda.Spence@dfo-mpo.gc.ca>; Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Postlethwaite, Victoria <Victoria.Postlethwaite@dfo-mpo.gc.ca>
Subject: Re: Biological Sampling Costs - F&B / Roe Fishery

Hi Amber,

I'm seeing we have a meeting on this in April. I've thought about this some more and I'm not understanding where the extra fee is coming from.

Currently there is already an observer onboard, required, for F&B. The observer is providing one sample per set. The fish are already being caught, the observer is already required to be onboard so I don't understand where the extra fee is coming from.

Further, Science provides buckets and labels to JOThomas for sampling. Science or RM pick up the samples or Science pays for JOT to bring the samples from Vancouver to PBS.

I understand that industry brought the topic up with RM so perhaps what is needed is for industry to ask JOT how they are justifying an extra fee. Ie, what is missing in my description that would generate a fee?

Jaclyn

Jaclyn Cleary

Program Head- Pacific Herring
Quantitative Assessment Methods Section (QAMS)
Stock Assessment and Research Division, Science
Fisheries and Oceans Canada, Government of Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tel: 250-756-7321

Section de méthode d'évaluation quantitatif (SMEQ)
Division de l'évaluation des stocks et de la recherche, Science
Pêches et océans Canada, Gouvernement du Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tél: 250-756-7321

On Dec 18, 2018, at 3:07 PM, Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca> wrote:

Hi Kristen,

Brenda and myself just participated in a call with JOT and industry about monitoring costs. Industry raised a concern that JOTs admin fees (charged to industry) are covering the administration and handling of biological samples. I agreed to follow-up with Science to get a better sense of what is required for the sampling program and how costs might be offset. I think there are 2 main questions:

- 1) For the F&B fishery, the current standard is 1 sample per area fished per night. As the TAC and catch has increased for F&B fishery, the total number of samples collected has also increased. Of the samples collected, how many are you able to process and analyze? Is it still necessary to collect samples at this frequency or could there be a reduced sampling schedule?
- 2) JOT believes that with other areas not opening to roe fisheries, there will be fewer samples collected and a surplus of science funds. If so, could these funds be used to offset the cost of sampling in the F&B fishery?

Could we set-up a meeting to go over what the sampling program entails, the budget and how JOT is contracted? We can discuss if it would make sense for you to follow-up with JOT directly or if I should follow-up on your behalf. I'm around tomorrow and Thursday and then I'll be out of the office until Jan 7. I don't think this is super urgent, I anticipate that we'll need to provide an update to HIAB in the spring and any potential changes likely wouldn't take effect until next year. I just thought I'd get the ball rolling while it's fresh in my mind.

Brenda, I'm not entirely sure if I captured the gist of the conversation correctly. If I have missed anything or misinterpreted anything, please let me know.

Cheers,
Amber Neuman

s.16(2)(c)

Resource Manager – Herring

South Coast Area, Resource Management Branch, Pacific Region

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Gestionnaire des Pêches - Hareng

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Postlethwaite, Victoria

From: Postlethwaite, Victoria
Sent: Tuesday, April 30, 2019 12:52 PM
To: Neuman, Amber
Subject: Friday meeting minutes
Attachments: Herring Licensing and Regulations Meeting Minutes Apr 26 2019.docx

Victoria Postlethwaite, MRM

Regional Herring Officer / Agent Régional du Hareng
Fisheries and Aquaculture Management / Gestion des pêches et de l'aquaculture
Fisheries and Oceans Canada / Pêches et Océans Canada

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s.16(2)(c)



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Postlethwaite, Victoria

From: Neuman, Amber
Sent: Wednesday, May 8, 2019 1:32 PM
To: Edwards, Robert; Postlethwaite, Victoria; Spence, Brenda; Groves, Steven; Rusch, Bryan; Jeffrey, Karen; Bromley, Monte; Cauffope, Genevieve; Doiron, Karen; Crottey, Michael; Lyth, Ryan; Guno, Jason
Subject: RE: Herring Licensing, Regulations and Enforcement - Post-Season Review Meeting Materials
Attachments: 1 Herring Licensing, Regulations & Enforcement Meeting Minutes Apr 26 2019.docx
Follow Up Flag: Follow up
Flag Status: Flagged

Hi Everyone,

Here are the meeting minutes from our DFO internal Herring Licensing, Regulations and Enforcement meeting on April 26. Thank you to everyone who participated and a special thank you to Victoria for taking notes! The biggest action item from this meeting was the formation of a subcommittee to review regulations, enforcement and monitoring issues. This subcommittee was supported by the Herring Working Group so I will be sending out another message shortly to those that were identified to participate. Please let me know if you have any further questions.

s.19(1)

As many of you know already, I will be moving to a new position with DFO aquaculture on May 15. If you have any herring related questions after that time, please contact Victoria and Bryan until a replacement is identified for my position. I [REDACTED] again at some point in the future. If you would like to keep in touch, my email will remain the same.

Sincerely,

Amber Neuman

Resource Manager – Herring
South Coast Area, Resource Management Branch, Pacific Region
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s.16(2)(c)

Gestionnaire des Pêches - Hareng
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From: Neuman, Amber
Sent: 2019–April-29 9:41 AM
To: Edwards, Robert <Robert.Edwards@dfo-mpo.gc.ca>; Postlethwaite, Victoria <Victoria.Postlethwaite@dfo-mpo.gc.ca>; Spence, Brenda <Brenda.Spence@dfo-mpo.gc.ca>; Groves, Steven <Steven.Groves@dfo-mpo.gc.ca>; Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Jeffrey, Karen <Karen.Jeffrey@dfo-mpo.gc.ca>; Bromley, Monte <Monte.Bromley@dfo-mpo.gc.ca>; Cauffope, Genevieve <Genevieve.Cauffope@dfo-mpo.gc.ca>; Doiron, Karen <Karen.Doiron@dfo-mpo.gc.ca>; Crottey, Michael <Michael.Crottey@dfo-mpo.gc.ca>; Lyth, Ryan <Ryan.Lyth@dfo-mpo.gc.ca>; Guno, Jason <Jason.Guno@dfo-mpo.gc.ca>
Subject: Herring Licensing, Regulations and Enforcement - Post-Season Review Meeting Materials

Hi folks,

Here are the materials from our meeting on Friday, recommendations from the meeting are recorded in the ppt presentation. I'll try to get a summary out in the next couple of weeks.

Cheers,

Amber Neuman

Resource Manager – Herring

South Coast Area, Resource Management Branch, Pacific Region

Fisheries and Oceans Canada | Government of Canada

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Herring Licensing Regulations, Enforcement, and Monitoring Review Meeting

Attendess: Genevieve Cauffope (Regs), Amber Neuman, Victoria Postlethwaite

Phone: Jason, Monte, Karen, Bob Edwards

Introductions, review of objectives, successes and challenges

LICENSING

Successes/Challenges for Food and Bait (slide 3)

- **Bob will working on improving the spreadsheet he uses for tracking**
- **This year, Bob was able to waive the Food and Bait application forms, this will improve the ability to process conversion forms; he will be working on making this a permanent move**
- **First year as program lead, Bob found it worked well with using the spreadsheet. Once more refined it will be easier to track things so nothing falls through the tracks**
- JOT did not give much feedback on the spreadsheet; goal is to have them cross reference with the monitoring subscriptions but that did not happen this year. Will be discussing with them at the meeting this afternoon.
 - If fishers go out without licenses reviewed, that is an issue for C&P – will be talking about timelines for licensing and approvals at HWG next week

Successes/Challenges for Roe (slide 4)

- Template didn't carry forward for the gillnet licenses, they had to be reissued – will take about another month (should be done by about mid June)
 - Measures have been put into place to avoid this happening again
- Spreadsheet helped improve efficiency
- Application forms for roe cannot be waived because it puts the burden on pool captains; this year pool captains submitted incorrect pools so without the application forms it would be too difficult to double check
 - Need the application forms from a legal standpoint, to know the license holders are actually allowing pool captains to use their quota
- Earlier we can get the IFMP approved the better but we need Food and Bait to be closed before we can do this; can we make this deadline earlier?
- **Earlier area selection and pool deadlines – bring forward to working group and HIAB**
- **Maintain and update procedures for Licensing**
- **Discuss improvement of IFMP timeline at HWG**

SOK Successes and Challenges (slide 5)

- Biggest challenge is getting the information on quota in a timely manner
- Groundfish overlaps with SOK; need to get it prior to groundfish fishery opening

- Information for the quotas
- Need to manually enter addendums to each license
- Not getting correct quota is not easy to correct
- **SOK timelines and license issuance need to be brought forward to working group**
 - o License expires on December 31st, anywhere around then would work but Groundfish opens on February 20th so need before then
 - o By early January would work well, and then when the IFMP is approved the fees could be pushed up
- Victoria to ensure Karen is aware which times of HWG that she should call in; pull up these action items at working group

REGS

Food and Bait and Special Use Packing Conditions (slide 6)

- The current packing conditions do not currently include all herring types; likely a holdover from many years ago. Would like to include Food and Bait and Special Use herring this year as that is what is currently happening

Issues:

- Spawn on Kelp would be an issue to include due to the use of totes
- **Include definition of herring in the transporting of herring section to not include spawn-on-kelp**
- Would we limit it to another vessel that has a D license? Likely not; should be able to work with any vessel

Action: Develop subcommittee working group to work through developing these; someone from Regs, C&P and RM; we could consult with HIAB as formality

- Gen, Monte, Victoria and Bryan will sit on the committee
- This year the workaround was for the packer to have a ZM license due to the provision about sharing catch. If fishers have a packer from November-December we would still need to do this workaround, but eventually all the vessel-based licenses will have it.
- **Schedule meetings in advance; first meetings should be in June/July – Victoria to set the first meeting**

Biological Sampling (CoL) (slide 7)

s.20(1)(b)

s.20(1)(c)

- Samples are collected one sample/area/night
- ASOs collect them; JOT has charged us an administrative fee to deal with this increased amount of samples
 - o They have charged an additional [REDACTED] to cover a staff member to pick up the samples
- Industry do not want to cover this cost; could make the license conditions to make the license holder take the sample (we do this in prawn; used to be through the association and then JOT and assoc had contract)
- **JOT and industry to sit down and discuss costs**
 - o JOT needs to be upfront about what their costs are

- If this remains an issue and industry does not support JOT in collecting samples it may need to become a license condition; could be linked to requests from an observer

Vessel Tracking (CoL)

- Prawn and Tuna have VMS, groundfish and crab have their own electronic monitoring; it's possible to put the requirements in but need to think about what we would want
- May need to consider this tool if we are considering removing on-grounds managers
- Requiring AIS could be a condition of license but would only work in SOG
- VMS ranges from \$800-\$1800; ongoing costs is how often you require data to be transmitted
- **Privacy issue with requiring AIS; may need to run this by legal for this reason**
 - o Gen to do this
- VMS could be used in any skiff or boat, works really well for prawns
- **Bring this issue forward to working group**
 - o Could DFO subsidize this? Big costs associated with this
 - o Cameras could be used to notice releases, and with an overall deck view; this could be piloted with the test boat
 - o We permit sets when DFO is on-grounds; how could this help?
 - o Being out there may just be optics
 - o Pooling may not work; may have to change to an ITQ fishery

Sorting (CoL)

- *Sorting concern reported in Special Use fishery*
- **Update Special Use and Food and Bait license conditions with sorting requirements**
- **Monte to follow up with C&P Campbell River to get officer on the Special Use case; he will get in touch with Victoria**

F&B Conversions and Licensing Request Timing

- Right now fishers go out with some quota but often go over and then do conversions after the fact; this is technically a violation but has not yet been an issue
- This could become a condition of license to give them time to reconcile; in groundfish it is a condition of license if you go over, you cannot go out fishing again until you do.
- Licenses are not a true ITQ; you cannot transfer 4 tons of herring off one license (really license stacking)
- Lots of flexibility in it right now but if they do go over there is no mechanism to correct it
- Look at this in the conditions of license subcommittee and review other example (salmon, groundfish)

F&B Validations for different catch areas

- With catch cap in one area, if catch from different areas is mixed you cannot determine exactly how much was taken from that area
- Could regulate that you cannot fish in another area once you have fished in Area 29-5
- Could have a hail requirement if they switch areas

- **This should be brought forward to HIAB options either validating all fish of one night in that area to the catch cap area or that you cannot fish in another area once you have fished in the catch cap area**

Seine COL Release

- Observer recording a major release when it was not an intentional release of fish (over the cork line or escape through a hole in the net)
- Already clear in COL that this is not a major occurrence
- Want to still report it in case the fish is dead so could include as minor occurrence
- Vessel master to report non-intentional fish escapement

C&P Review

- Fishery opened on the weekend so no one was available from C&P to be there for the opening; **consider someone to be available next year for the key times**

South Coast

- Workplanning is new, very prescriptive about which priorities they can spend their time on
 - o One of the highest priorities is CSSP, 597 specific areas that need to be patrolled; CSSP policy has changed to do the patrols anytime
 - o Working on other priorities, can possibly do more herring work on the gillnet fishery
- C&P presence is important from an optics stand point
- Training for the officers would then be required so that if there is an issue they can respond
- **May not have management platform in the same capacity as we have in the past; we have been able to take other DFO staff out for training so we could possibly bring C&P staff out with them**
- **RM presentation to fishery officers, MPP, RHIB pre-season in November (December would be too late)**
 - o **Mike Crottey would be the contact for that; Monte to let him know and then Amber's (position) or Victoria to follow up (Bryan will be the contact for her until a replacement is found)**
- Start getting resource managers thinking about herring earlier in September

Lower Fraser

- Jason to touch base with other staff to see how it went; extent of presence is with offloads
- **Invite someone from Lower Fraser to HWG in the fall for the C&P agenda item, identify a person to be the contact for C&P Lower Fraser**
- **Someone in DFO RM to give presentation to someone in Steveston office**

Abandoned gillnets

- Every year at least one is abandoned
- Marking required only on one end; marking can be removed from one end if they need to leave

- **Ghost fishing license conditions will be required next year**
- **C&P presence could check gillnet markings to make sure they are compliant; Monte to add this increased presence to his workplan**
 - o **Amber to email Monte requesting C&P requirements to include in workplan**
- Fishery general regulations include information about gillnet buoys and that the gillnet must be marked
- To identify the net you could make them record something on the corkline
- Compliance rate with marking requirements?
 - o Issue is that when guys are leaving nets they are doing it on purpose; how could we address this from an enforcement purpose?
 - o Does not happen often but it is an issue
 - o Ghost fishing used to be a big problem but is now minimal
- Resource managers to include this as an education piece in conjunction with the new license conditions about ghost gear
 - o Brainstorm other ideas for enforceability

Sea Lions

- Seal bomb use still under investigation; marine mammal regulation charges as well as possible explosive charges – submitted for charge approval
 - o Education piece for us that this is a violation; this has not been enforced in the past
 - o C&P is not enforcing the use of seal bombs still because it was never on the radar and worth the effort. Deterrents have always been used but the video was the impetus for this.
 - o Government of Canada has been funding marine mammals so this is big on the radar; so enforcement may be increased
 - o Fishers still feel that if they make enough noise about the issue the Government would do something about it; need education of them
- Shooting of seal lion:
 - o C&P investigated, when they arrived the sea lion was decapitated so could not investigate the shooting. The body did have clear cuts on its back from propellers but unclear if that was pre or post season
 - o Shootings are common and often see dead sea lions with bullet holes; that would definitely be a violation but it would be difficult to prove (would need to dig out the bullet but without a gun or witness it would be next to impossible)

Public Opposition and Potential Protests

- Already discussions for next year about closing the fishery
- **Ongoing communications with C&P staff about this**

FSC boughs and gillnet fishery conflicts

- Industry contacted that nation and discussed how to make reparations, replaced all the lost gear

- Not a lot we can do from an enforcement perspective; we share the areas with industry and ask them to avoid the areas. Decision to close the areas around the other areas where FSC boughs are to allow for it to be enforced.
- Moving closures may be required next year as this set a precedent; C&P will need to be aware of this during patrols and already do a lot to protect
- **These will be Field VOs that area managers can sign; just sign a form that Regs processes**
 - o **Will need to touch base with Gen about protocols for this**

Stand-Off Area

- Few fishing vessels that go into that area that aren't supposed to, not a big issue right now due to limited vessel numbers

Alternate Monitoring

- ASO pilot going ahead for next year
- Could include electronic monitoring under this project

JOT ASO harassment complaints:

- Section 46/3/a of fishery regs says fishers must provide a suitable work area (could mean a smoke free area)
 - o Employers must provide designated smoke area
- Refusal of work could occur if the worker feels unsafe in smoking room

Herring Monitoring Review with JOT

- Review of discussions today will be brought forward to HWG/IHHPC/HIAB
- Review of SOG fisheries
 - o **Amber to add 29-5 catch cap information to the slides**
 - o Good spatial and temporal distribution of Food and Bait fishery
 - o Very few F&B occurrences

Seine COL "Release"

- Escapement of herring over the cork line does not constitute an occurrence. The wording for the COL and the manual is sufficient, but the ASOs just need to be trained as such
- If there is a substantial amount of fish that are entering the environment dead we still need a record of it, just not necessarily from an enforcement perspective

- What could this look like?
- The observers have not been calling it a major occurrence in majority, up to now escapement has been observed and reported if there is a major escapement from the net. This is an occurrence but is not a major one reported to the Radio Room.
 - We have never had the over the cork line issue in previous years
- **JOT to add line to occurrence report explicitly stating this type of escapement under "other"**
 - JOT then completes IR, DFO is notified
 - **JOT will include change in syllabus/manual; provide manuals to DFO to review, and then review with ASO**
 - Escapement wording likely does not need a certain amount; it would be too difficult for an observer to
- These escapements are really caused by sea lions so that is likely why we are seeing an increased number
- **DFO/JOT to inform HIAB of this change**

Validating fish caught in different areas

- Need an accurate record of what is caught in Area 29-5 to ensure we know how close we are to the cap
- Once this past season, one fisher fished in this area and another area under one validation so had to use skippers estimate of what was fished in 29-5
- Considering a few options about validating, we are going to put this forward to them
 - Would likely go with if you fish in 29-5 you can't fish in another area until validating, or all fish in the hold accounts towards 29-5
 - Wouldn't need a new license condition because it is not happening very much
 - Area 29-5 is very close to an offload plant
- Either way will work for JOT to deal with
- **DFO and HIAB will work on this and report back to JOT**

Packing Conditions

- Food and Bait and SU currently are not included in packing conditions
- Packers being used for F&B fishery are currently having to be designated in the fishery
- Revise conditions of license for these fisheries; will be in packing conditions for 2020
 - Any vessel based licenses for that year will be renewed for these conditions
- For SU this will only apply really to ZY3/4
- **DFO will work on this and report back to JOT**

Reconciling licensing records with monitoring subscription/timing of conversions

- Licensing provides daily updates to RM/JOT

- If a vessel has a monitoring subscription on it, could get NOLS to flag that the license can be issued? Would be useful to have NOLS ID this
- The daily update spreadsheets from Bob were really helpful on but if they have a monitoring subscription that is fine with JOT
- Need to ensure the fishers have a valid license before they fish, trying to get them to get their license before calling in to get monitoring subscription
- Education piece for fishers to make sure the license is renewed and paid prior to seeking monitoring
- From RM, we are there to make sure they don't go over
- Sylvia checks when they submit a monitoring subscription that they have a license
- Often few repeat offenders; enforcement issue.
 - o **Warning letter could be issued from C&P to those same offenders**

ASP policy/reg regarding work environment

- Last few years there has been an enhanced realization that the work environment needs to be cleaner and healthier
- Global ASOP conference last month in Halifax discussed smoking on board; if there is an issue on board there the company will refuse an observer
 - o JOT will refuse to put an observer on board should this continue if there is harm to physical or health safety, fishers will not have another option
 - o High sensitivity to this; not just cigarette smoke, marijuana also smoked
- Worksafe BC issue
- Fishery general regulations state there must be a suitable workplace; next step would be to refuse work
- DFO would support this; this is a national priority at the national ASOP meeting
 - o **Approach will be on a case by case basis by JOT and DFO will be notified should anything happens**
 - o JOT would notify DFO if this refusal happened
- Bruce Logan (WorkSafe BC) notified by Amber, asked about regulations
- **Education piece from both DFO and JOT to HIAB pre-season**

Harassment

- Global ASOP conference also spoke about this
- Few occurrences near the beginning of the program that resulted in some harassment, sometimes brought up this year that crew would not like things they've done
- DO's are being bullied at the dock, are phoned that you don't send the same person
- If they are preventing observers from doing their job that is an issue
- **DFO to educate HIAB pre-season; vast majority of fishers are excellent to work with**
- **JOT reserves the right to refuse work until fisher can prove safety on board will be maintained**

By-catch accounting procedures

- Want to make sure that there is a better procedural way to monitor by-catch

- At dockside, the observers are at the scales so may not see the by-catch
- What procedure could we put into place to add to the observers methodology?
 - o Sylvia scanned all observers and found that there was very minimal bycatch
 - o Put in procedures
 - o We know there is little bycatch but need to document
- **JOT to look at manual and reporting forms to see how to incorporate this for next season; report back to DFO**

Roe to Food and Bait Conversions

- Timeline from time of catch to convert the licenses to cover their overages – considering this to give the fishers more flexibility and bring them into compliance
- Herring subcommittee on these license conditions will be considering this (give 24-48 hours to cover their overages prior to fishing again)
- **DFO will keep JOT informed**
- **Sorting issue will also be added to license conditions and Karl, Victoria, and C&P officer will go up to Campbell River over the summer or early fall to speak to Walcan**

Monitoring/Biological Sampling Costs

- Biological sampling has increased over the last few years
- Many costs to the program that have not been incorporated into charges
- Charges would be anything over 10 samples; currently charging the same as with roe herring
- **Did special use take any samples?**
 - o **Victoria to follow up with Kristen**
- **DFO to review sampling guidelines to ensure good sampling coverage**
- Science is not willing to pay more so industry will have to pay
- **DFO to let industry know that increased sampling is a DFO led decision**
- **DFO to help with daily pick-up of samples where possible**

Roe Herring

- Trying to improve IFMP and licensing timelines
- Did not have area selection this year but was still a time crunch because of conversions; most companies will submit these before the Food and Bait fishery ends if we have an earlier soft deadline
 - o Seines are usually; gillnets are the issue so we could move the deadlines earlier for them as they don't participate in the Food and Bait fishery
- Pool lists are the main issue with JOT; until they have that they can't move forward

C&P/JOT vessel hold checks

- Tell plants what issues are; if we cannot ensure that the observers are not safe they do not get an observer
- Transfer of observers at-sea is a safety concern but that has gone down a lot
- JOT has strict procedures for safety with training and documents
- **Lack of willingness from the plant to fix the issue; they are not going to do it until we make them so we can tell them no observer**
- Fishery opened on a weekend so had poor communication on the weekend
- C&P was very responsive to JOT and helped a lot
 - o Inspections of plants pre-season were done but not sure why there wasn't inspections during season
- JOT did receive a letter in 2017/18 from the head of C&P to indicate that we needed to do vessel hold checks
- First day out is critical to getting them on-board; C&P couldn't put out an overtime patrol
 - o At some plants hold checks are impossible because you have docks where at certain times there are a 15 ft drop and no space to get onto the boat
 - o Plants are aware of the issue and C&P has complained
 - o Solution is they don't get an observer until they can provide a safe workplace for the staff
- This year, an observer would watch a crew member take a photo of the hold and show the observer
 - o Defeats the purpose of having an observer there
- Plant does not want to spend money and it is not their workers who are at risk
- Frustrating because it's not the first time they've been told
- **The industry knows but we could make them aware that observers may be pulled; DFO to bring forward to herring working group and develop plan. DFO to educate industry and coordinate with WorkSafe**
- **Fairly late engagement with Lower Fraser; DFO to engage them at our pre-season meetings to start earlier dialogue and prepare to have officers available during that time**

DMP Leakage Threshold

- Some leakage off conveyor belts
- Observers have noticed that there was whole fish as "leakage" – resulting in about 4-500 lbs of fish per offload. This is often at plants with a "descaler" – provides an offshoot for herring to spill on the floor.
- Reports go out to industry and they notice 500 lbs mistakes
- Pre-season addition to notice about "what is fish", especially for roe herring.
- This is not the case at every plant
- JOT needs a guideline to let their DOs know, and apply this
- **DFO to discuss with working group what the threshold is; discards may also need to be accounted for – DFO to report back to JOT prior to the season**

Mobile ASO Pilot/Monitoring Changes

- How can we manage these fisheries without compromising the integrity of data and monitoring, and meet public perceptions?
- Some ideas are: mobile ASO, VMS and AIS, video monitoring
- ASO pilot: JOT felt the program accomplished a lot, didn't provide as much as we would have liked as the fishery ended. Technology on the back office (Harvey, JOT programmer), platform was a testing platform
 - o Transmission capability coming forward and will be increase a lot
 - o Cameras are retrospective
 - o Satellite telemetry is real time and that's what you need
 - o Utilizing video coverage for observers
 - o Cameras don't work well at night
- Phase 2 of the ASO pilot – need to improve on back office and understand how a larger scale would work.
 - o One issue was getting data to DFO
 - o Purpose built platform needed that would satisfy the basic requirements
- As a company JOT is moving towards that direction and provide these data requirements
 - o Need something that work well in areas that don't have great satellite needs
 - o JOT is supportive of this

Mattu, Janice

From: Mattu, Janice
Sent: November-21-18 12:49 PM
To: Goruk, Andrea; Rusch, Bryan
Cc: McElhaney, Elizabeth (Elizabeth.McElhaney@dfo-mpo.gc.ca)
Subject: Herring OT

Hi Andrea and Bryan,

Just a note that we had to tweak our staff plan so the herring OT number has been reduce slightly.

The current herring OT forecast is - \$36.1K

Thanks,
Janice

Janice Mattu
Administrative Officer, Resource Management
Fisheries and Oceans Canada / Pêches et Océans Canada
South Coast Area / Secteur de la Côte Sud
3225 Stephenson Point Road / 3225 rue Stephenson Pt.
Nanaimo, BC V9T 1K3 / Nanaimo, (C.-B.) V9T 1K3
Tel: (250) 756-7257

Mattu, Janice

From: Neuman, Amber
Sent: January-24-19 12:00 PM
To: Cleary, Jaclyn; Thompson, Matthew
Cc: Rusch, Bryan; Mattu, Janice
Subject: RE: 2018/19 spawn flights

Hi Matt & Jaclyn,

I'm sorry to report that we still don't have someone confirmed to fly for SOG. It looks like Erika Watkins will be coordinating the tracking of flights & budget but apparently she is not a good flyer. Greg H and Christine may be able to 1-2 flights each out of Campbell River with Corilair but other than that, it looks like most of the flights will be based out of Nanaimo with Seair. Bryan is following up with Laura and some other leads to see if there is anybody available in Nanaimo to help out while we are out on the management platform. Once we are off the water, I will likely be doing most of the flying for RM from Nanaimo.

We are having the SCA planning meeting on Jan 31. Is there any chance that the call-ups can wait until after this meeting? If not, my best guess at this point is that there would be max. 4 flights with Corilair out of Campbell River, I haven't gotten updated rates from them yet but if they are the same as last year, we could probably estimate \$1,200/flight = \$4,800. With the remainder of the budget going to Seair in Nanaimo. So roughly a 20/80 split between the 2 companies.

I have talked to Janice and she would prefer that invoices be sent directly to the Science admin to be entered and paid. She will be away the last couple of weeks of March so anything sent to her during that time would not be processed. I am placing the spawn flights early on the agenda for the SCA planning meeting so Janice can come and help us sort this out.

In the meantime, I'll contact Corilair and Seair to inquire about their rates and availability for this year.

Cheers,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) [REDACTED]

From: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>

Sent: 2019-January-15 9:44 PM

To: Goruk, Andrea <Andrea.Goruk@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>; Spence, Michael <Michael.Spence@dfo-mpo.gc.ca>; O'Connell, Ryan <Ryan.O'Connell@dfo-mpo.gc.ca>; Ganton, Amy <Amy.Ganton@dfo-mpo.gc.ca>; Koroluk, Bradley <Bradley.Koroluk@dfo-mpo.gc.ca>; Wong, Kristen <Kristen.Wong@dfo-mpo.gc.ca>; Groves, Steven <Steven.Groves@dfo-mpo.gc.ca>; Martens, Corey <Corey.Martens@dfo-mpo.gc.ca>; Gordon, Jennifer <Jennifer.Gordon@dfo-mpo.gc.ca>

Cc: Spence, Brenda <Brenda.Spence@dfo-mpo.gc.ca>; Postlethwaite, Victoria <Victoria.Postlethwaite@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>

Subject: 2018/19 spawn flights

Hi everyone:

This email is to confirm your flight budget for herring spawn flights for Feb-March 2019 (this fiscal only). Matt and I are working on arranging call-ups and will be in touch with instructions for this process (a few changes this year).

Budget for Feb-March 2019

PRD- 5k

CC- 15k

SOG- 25k

WCVI- 20k

In the mean time, please confirm the following for each area by January 18:

AREA: SOG (Strait of Georgia)

FLIGHT COMPANY 1: Sear Seaplanes

FLIGHT COMPANY 2: Corilair

NAME OF PERSON CONDUCTING FLIGHTS: _____ ?? _____ (incl. tracking the flights and budget)

YOUR ADMIN: Janice Mattu

AREA PRD (Prince Rupert)

FLIGHT COMPANY: Inland Air

NAME OF PERSON CONDUCTING FLIGHTS: **Jennifer Gordon** (incl. tracking the flights and budget)

YOUR ADMIN: Marisa Keefe

AREA CC (Central Coast)

FLIGHT COMPANY: _____ ?? _____

NAME OF PERSON CONDUCTING FLIGHTS: **Brad Koroluk** (incl. tracking the flights and budget)

YOUR ADMIN: Melany Rambo

AREA: WCVI

FLIGHT COMPANY: West Coast Wild Adventures

NAME OF PERSON CONDUCTING FLIGHTS: _____ ?? _____ (incl. tracking the flights and budget)

YOUR ADMIN: Janice Mattu

Thank you,
Jaclyn

Jaclyn Cleary

Program Head- Pacific Herring
Quantitative Assessment Methods Section (QAMS)
Stock Assessment and Research Division, Science
Fisheries and Oceans Canada, Government of Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tel: 250-756-7321

Section de méthode d'évaluation quantitatif (SMEQ)
Division de l'évaluation des stocks et de la recherche, Science

Mattu, Janice

From: Neuman, Amber
Sent: February-08-19 8:34 AM
To: Mattu, Janice
Cc: Rusch, Bryan
Subject: RE: 2018/19 spawn flights
Attachments: Steps for Herring Flight Callup.docx

Hi Janice,

I just realized I hadn't followed-up with you on this. Science has still identified the RM admins to put together the call-ups for the spawn flights and then science will receive/pay invoices (see attached). Are you able to do this? Please let me know if you need anything from us.

We'll be meeting with Seair on Feb 19 and planning our first flight around Feb 20. Is Feb 19 too late to get their signature?

Bryan, can you cc' Stu? I'm not sure what his last name is.

Thanks,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) [REDACTED]

From: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Sent: 2019-February-01 9:56 AM
To: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>; Goruk, Andrea <Andrea.Goruk@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>; Spence, Michael <Michael.Spence@dfo-mpo.gc.ca>; O'Connell, Ryan <Ryan.O'Connell@dfo-mpo.gc.ca>; Ganton, Amy <Amy.Ganton@dfo-mpo.gc.ca>; Koroluk, Bradley <Bradley.Koroluk@dfo-mpo.gc.ca>; Wong, Kristen <Kristen.Wong@dfo-mpo.gc.ca>; Groves, Steven <Steven.Groves@dfo-mpo.gc.ca>; Martens, Corey <Corey.Martens@dfo-mpo.gc.ca>; Gordon, Jennifer <Jennifer.Gordon@dfo-mpo.gc.ca>
Cc: Spence, Brenda <Brenda.Spence@dfo-mpo.gc.ca>; Postlethwaite, Victoria <Victoria.Postlethwaite@dfo-mpo.gc.ca>
Subject: RE: 2018/19 spawn flights

Good morning,

Attached is the steps for this year's spawn flight call-ups. Please proceed for February and March flights. New call-ups will need to be created for April (if funds available).

Let me know if there are any questions.

Thanks

Matt

From: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>
Sent: January-15-19 9:44 PM
To: Goruk, Andrea <Andrea.Goruk@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>; Spence,

Michael <Michael.Spence@dfo-mpo.gc.ca>; O'Connell, Ryan <Ryan.O'Connell@dfo-mpo.gc.ca>; Ganton, Amy <Amy.Ganton@dfo-mpo.gc.ca>; Koroluk, Bradley <Bradley.Koroluk@dfo-mpo.gc.ca>; Wong, Kristen <Kristen.Wong@dfo-mpo.gc.ca>; Groves, Steven <Steven.Groves@dfo-mpo.gc.ca>; Martens, Corey <Corey.Martens@dfo-mpo.gc.ca>; Gordon, Jennifer <Jennifer.Gordon@dfo-mpo.gc.ca>
Cc: Spence, Brenda <Brenda.Spence@dfo-mpo.gc.ca>; Postlethwaite, Victoria <Victoria.Postlethwaite@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Subject: 2018/19 spawn flights

Hi everyone:

This email is to confirm your flight budget for herring spawn flights for Feb-March 2019 (this fiscal only). Matt and I are working on arranging call-ups and will be in touch with instructions for this process (a few changes this year).

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In the mean time, please confirm the following for each area by January 18:

AREA: SOG (Strait of Georgia)

FLIGHT COMPANY 1: Seair Seaplanes

FLIGHT COMPANY 2: Corilair

NAME OF PERSON CONDUCTING FLIGHTS: _____ ?? _____ (incl. tracking the flights and budget)

YOUR ADMIN: Janice Mattu

AREA PRD (Prince Rupert)

FLIGHT COMPANY: Inland Air

NAME OF PERSON CONDUCTING FLIGHTS: **Jennifer Gordon** (incl. tracking the flights and budget)

YOUR ADMIN: Marisa Keefe

AREA CC (Central Coast)

FLIGHT COMPANY: _____ ?? _____

NAME OF PERSON CONDUCTING FLIGHTS: **Brad Koroluk** (incl. tracking the flights and budget).

YOUR ADMIN: Melany Rambo

AREA: WCVI

FLIGHT COMPANY: West Coast Wild Adventures

NAME OF PERSON CONDUCTING FLIGHTS: _____ ?? _____ (incl. tracking the flights and budget)

YOUR ADMIN: Janice Mattu

Thank you,
Jaclyn

Jaclyn Cleary

Program Head- Pacific Herring
Quantitative Assessment Methods Section (QAMS)
Stock Assessment and Research Division, Science
Fisheries and Oceans Canada, Government of Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tel: 250-756-7321

Section de méthode d'évaluation quantitatif (SMEQ)
Division de l'évaluation des stocks et de la recherche, Science
Pêches et océans Canada, Gouvernement du Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tél: 250-756-7321

Steps for Herring Flight Call-Ups:

Flight Location	Area	Local Herring Manager	Office Manager	Flight Operator	Address	Standing Offer	Call-Up Amount 2018/2019 fiscal
Prince Rupert	PRD	Jennifer Gordon	Sandra Cardoso	Inland Air Charters	Box 592, Prince Rupert BC V8J 3R5	E60SQ-020001/097/SQ	\$5,000
Central Coast	CC	Brad Koroluk	Melany Rambo	Wilderness Seaplanes	PO Box 121, 3675 Byng Rd, Port Hardy BC V0N 2P0	E60SQ-020001/454/ZL	\$15,000
Strait of Georgia	SOG	Amber Newman	Janice Mattu	Corilair Charters LTD	PO Box 1451 Stn A, 3050 Spit Rd, Campbell River BC V9W 5C5	E60SQ-020001/060/SQ	\$5,000
Strait of Georgia	SOG	Amber Newman	Janice Mattu	Seair Seaplanes	4640 Inglis Drive, Richmond BC V7B 1W4	E60SQ-020001/152/SQ	\$20,000
West Coast Vancouver Island	WCVI	Ryan O'Connell	Janice Mattu	West Coast Wild Adventures	Box 107, 944 Peninsula Rd, Ucluelet BC V0R 3A0	E60SQ-020001/264/ZL	\$20,000

Collator: 51880-810-120-xxxx-52101

Each Area office will create the call-up(s) and enter into Abacus

- cc Melody Haaland on call-ups

Local managers to collect flight operators signatures and returned to Melody

- Melody for Section head signatures

Invoices

- All invoices to Melody for payment directly from flight operator
- Expenditures tracked by Melody and Matt

Mattu, Janice

From: Haaland, Melody
Sent: February-13-19 1:33 PM
To: Mattu, Janice
Cc: Neuman, Amber; Thompson, Matthew; Cleary, Jaclyn; Forrest, Robyn
Subject: RE: Herring Call-up's for signature please -
Attachments: F1582-180024 Corilair, 180025 Seair, 180026 WCWA SIGNED Call-ups.pdf

Hi Janice, please see the attached Call-ups signed by Robyn/John for your entry into Abacus. Thanks!

Regards,

Melody Haaland

Administrative Assistant, Science Branch / Pacific Region - Stock Assessment & Research Division (StAR)
Fisheries and Oceans Canada / Government of Canada
melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071

From: Forrest, Robyn <Robyn.Forrest@dfo-mpo.gc.ca>
Sent: February-08-19 2:33 PM
To: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>; Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>; Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>
Cc: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Subject: RE: Herring Call-up's for signature please -

I have signed the \$5,000 call up. John will have to sign the other two.

From: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>
Sent: Friday, February 08, 2019 12:16 PM
To: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>; Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>; Forrest, Robyn <Robyn.Forrest@dfo-mpo.gc.ca>
Cc: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Subject: RE: Herring Call-up's for signature please -

Hi everyone,

I'll get the Call Ups signed by Robyn Forrest, the Section Head for QAM, and scan back to you. Thanks!

ROBYN, I've printed off the Call-Ups and they're in my office for signature. OR the Call-Ups are attached to this email if you want to print them off to sign and then scan signed copies back to me. tx

Regards,

Melody Haaland

Administrative Assistant, Science Branch / Pacific Region - Stock Assessment & Research Division (StAR)
Fisheries and Oceans Canada / Government of Canada
melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071

Regards,

Melody Haaland

Administrative Assistant, Science Branch / Pacific Region - Stock Assessment & Research Division (StAR)
Fisheries and Oceans Canada / Government of Canada
melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071

From: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>

Sent: February-08-19 11:52 AM

To: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>

Cc: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>;

Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>

Subject: RE: Herring Call-up's for signature please -

Thanks Jaclyn,

Yes, I received the instructions but was advised that Melody was away so I thought I could send to you directly.

I did cc Melody in the original email so will await a signed copy back from Melody so I can enter in Abacus.

Thanks,
Janice

From: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>

Sent: February-08-19 11:43 AM

To: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>

Cc: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>;

Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>

Subject: Re: Herring Call-up's for signature please -

Hi Janice,

These need to go to Melody. Attached are this year's instructions - not sure if this document reached you yet.

Many thanks,
Jaclyn

On Feb 8, 2019, at 11:36 AM, Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca> wrote:

Hi Jaclyn,

I seem to recall that you signed off on these herring call-up's last year for coding – 51880-810-120-0526-52101

If you are still the signing authority on these, can you please print and sign in both spots on the bottom of each call up. There are three attached.

If I should be sending these to someone else, please let me know!

Thanks,

Janice

Janice Mattu

Administrative Officer, Resource Management
Fisheries and Oceans Canada / Pêches et Océans Canada
South Coast Area / Secteur de la Côte Sud
3225 Stephenson Point Road / 3225 rue Stephenson Pt.
Nanaimo, BC V9T 1K3 / Nanaimo, (C.-B.) V9T 1K3
Tel: (250) 756-7257

<2019_02_08_11_31_37.pdf>



Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

Call-up Against a Standing Offer

Commande subséquente à une offre à commandes

Ship to - Expédier à

Fisheries and Oceans Canada
3225 Stephenson Point Road
Nanaimo, BC

F1582

V9R 1K3

Supplier - Fournisseur

Corilair Charters Ltd
PO Box 1451, Stn A
3050 Spit Rd
Campbell River, BC V9W 5C5

To the supplier: The standing offer identified below is accepted as follows: You are required to supply the goods or services, or both, shown below at the prices or on the pricing basis stated and in accordance with the other conditions stated in the standing offer. Only goods or services, or both, included in the standing offer will be supplied in the call-up against the standing offer.

Au fournisseur: L'offre à commandes indiquée ci-dessous est acceptée selon les modalités suivantes : Vous devez fournir les biens ou les services, ou les deux, indiqués ci-dessous selon les prix ou la base de tarification établie, et conformément avec les autres conditions stipulées dans l'offre à commandes. Seuls les biens ou les services, ou les deux, inclus dans l'offre à commandes seront fournis dans la commande subséquente à l'offre à commandes.

Security: The call-up includes security provisions.

Sécurité : La demande comprend des exigences en matière de sécurité.



NO
NON



YES
OUI

If YES, attach a SRCL to the call-up
Si OUI, joindre une L'ERS à la demande

Invoices must be sent in accordance with - Les factures doivent être envoyées selon :



The detailed instructions in the standing offer
Les instructions détaillées dans l'offre à commandes



The address shown in the "Ship to" block
L'adresse indiquée dans la case « Expédier à »



Special instructions below
Les instructions particulières ci-dessous

Each shipment must be accompanied by a packing or delivery slip. All invoices, bills of lading and packing slips must show the following reference numbers.

Chaque expédition doit être accompagnée d'un bordereau d'emballage ou de livraison. Les factures, connaissements et bordereaux d'emballage doivent tous porter les numéros de référence suivants.

Standing Offer No. - N° de l'offre à commandes

Requisition No. - N° de demande
Order, Off. - Bur. dem. YY - AA Serial No. - N° de série

Financial Code(s) - Code financier(s)
N° de référence du client (facultatif)

E60SQ-020001/060/SQ

F1582

18

0024

The representative of the Identified User signing the call-up form must indicate his or her physical address. This address will constitute the address most connected with the supply and will determine, where applicable, the place of supply for this procurement.
Le représentant de l'utilisateur désigné qui signe le formulaire de commande subséquente doit indiquer son adresse municipale, qui constituera l'adresse la plus associée à l'approvisionnement et qui déterminera, le cas échéant, le lieu d'approvisionnement pour cette commande.

Amendment No. N° de modification		Previous Value (\$) Valeur précédente (\$)		Value of increase or decrease (\$) Valeur de l'augmentation ou diminution (\$) 5,000.00		Total estimated expenditures or revised Total des dépenses estimatives ou révisées 5,000.00	
Item No N° de l'article	NATO Stock No. / Item Description N° de nomenclature de l'OTAN / Description de l'article			U. of I. U de d.	Quantity Quantité	Unit Price Prix unitaire (\$)	Extended Price Prix calculé (\$)
1	Air charters as and when required			sum	1.00	5000.00	5,000.00
Special Instructions - Instructions particulières						Total	5,000.00

For further information, call - Pour renseignements supplémentaires, contacter

Delivery required by - Livraison requise le
(YYYY-MM-DD) (AAAA-MM-JJ)

Name - Nom
Jaclyn Cleary

Telephone No. - N° de téléphone
250 756 7321

2019-03-31

For internal purposes only - Pour usage interne seulement

Approved for the Minister - Approuvé pour le Ministre

Pursuant to subsection 32(1) of the Financial Administration Act, funds are available.
En vertu du paragraphe 32(1) de la Loi sur la gestion des finances publiques, des fonds sont disponibles.

Signature (Mandatory - Obligatoire)

Date (YYYY-MM-DD - AAAA-MM-JJ)

Signature (Mandatory - Obligatoire)

Date (YYYY-MM-DD - AAAA-MM-JJ)

FEB - 8 2019

Canada

PWGSC-TPSGC 942 (01/2014)



Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

Call-up Against a Standing Offer

Commande subséquente à une offre à commandes

Ship to - Expédier à

Fisheries and Oceans Canada
3225 Stephenson Point Road
Nanaimo, BC

F1582

V9R 1K3

Supplier - Fournisseur

Seair Seaplanes
4640 Inglis Drive
Richmond, BC

To the supplier: The standing offer identified below is accepted as follows: You are required to supply the goods or services, or both, shown below at the prices or on the pricing basis stated and in accordance with the other conditions stated in the standing offer. Only goods or services, or both, included in the standing offer will be supplied in the call-up against the standing offer.

Au fournisseur: L'offre à commandes indiquée ci-dessous est acceptée selon les modalités suivantes: Vous devez fournir les biens ou les services, ou les deux, indiqués ci-dessous selon les prix ou la base de tarification établie, et conformément avec les autres conditions stipulées dans l'offre à commandes. Seuls les biens ou les services, ou les deux, inclus dans l'offre à commandes seront fournis dans la commande subséquente à l'offre à commandes.

Security: The call-up includes security provisions.

Sécurité: La demande comprend des exigences en matière de sécurité.



NO
NON



YES
OUI

If YES, attach a SRCL to the call-up
Si OUI, joindre une L'ÉVALUATION à la demande

Invoices must be sent in accordance with - Les factures doivent être envoyées selon:



The detailed instructions in the standing offer
Les instructions détaillées dans l'offre à commandes



The address shown in the "Ship to" block
L'adresse indiquée dans la case « Expédier à »



Special instructions below
Les instructions particulières ci-dessous

Each shipment must be accompanied by a packing or delivery slip. All invoices, bills of lading and packing slips must show the following reference numbers.

Chaque expédition doit être accompagnée d'un bordereau d'emballage ou de livraison. Les factures, connaissements et bordereaux d'emballage doivent tous porter les numéros de référence suivants.

Standing Offer No. - N° de l'offre à commandes

Requisition No. - N° de demande
Order. Off. - Bur. dem. YY - AA Serial No. - N° de série

Financial Code(s) - Code financier(s)
51880-810-120-0526-52101

Client Reference No. (optional)
N° de référence du client (facultatif)

E60SQ-020001/152/SQ

F1582

18

0025

The representative of the Identified User signing the call-up form must indicate his or her physical address. This address will constitute the address most connected with the supply and will determine, where applicable, the place of supply for this procurement.
Le représentant de l'utilisateur désigné qui signe le formulaire de commande subséquente doit indiquer son adresse municipale, qui constituera l'adresse la plus associée à l'approvisionnement et qui déterminera, le cas échéant, le lieu d'approvisionnement pour cette commande.

Amendment No. N° de modification		Previous Value (\$) Valeur précédente (\$)		Value of increase or decrease (\$) Valeur de l'augmentation ou diminution (\$) 20,000.00		Total estimated expenditures or revised Total des dépenses estimatives ou révisées 20,000.00	
Item No. N° de l'article	NATO Stock No. / Item Description N° de nomenclature de l'OTAN / Description de l'article			U. of I. U. de d.	Quantity Quantité	Unit Price Prix unitaire (\$)	Extended Price Prix calculé (\$)
1	Air charters as and when required			sum	1.00	20000.00	20,000.00

Special Instructions - Instructions particulières

Total 20,000.00

For further information, call - Pour renseignements supplémentaires, contacter		Delivery required by - Livraison requise le (YYYY-MM-DD) (AAAA-MM-JJ)	
Name - Nom Jaclyn Cleary	Telephone No. - N° de téléphone 250 756 7321	2019-03-31	
For internal purposes only - Pour usage interne seulement		Approved for the Minister - Approuvé pour le Ministre	
Pursuant to subsection 32(1) of the Financial Administration Act, funds are available. En vertu du paragraphe 32(1) de la Loi sur la gestion des finances publiques, des fonds sont disponibles.		8/2/2019	
Signature (Mandatory - Obligatoire)		Date (YYYY-MM-DD - AAAA-MM-JJ)	

Canada

PWGSC-TPSGC 942 (01/2014)



Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

Call-up Against a Standing Offer

Commande subséquente à une offre à commandes

Ship to - Expédier à

Fisheries and Oceans Canada
3225 Stephenson Point Road
Nanaimo, BC

F1582

V9R 1K3

Supplier - Fournisseur

West Coast Wild Adventures
Box 107, 944 Peninsula Rd
Ucluelet, BC, V0R 3A0

To the supplier: The standing offer identified below is accepted as follows: You are required to supply the goods or services, or both, shown below at the prices or on the pricing basis stated and in accordance with the other conditions stated in the standing offer. Only goods or services, or both, included in the standing offer will be supplied in the call-up against the standing offer.

Au fournisseur: L'offre à commandes indiquée ci-dessous est acceptée selon les modalités suivantes: Vous devez fournir les biens ou les services, ou les deux, indiqués ci-dessous selon les prix ou la base de tarification établie, et conformément avec les autres conditions stipulées dans l'offre à commandes. Seuls les biens ou les services, ou les deux, inclus dans l'offre à commandes seront fournis dans la commande subséquente à l'offre à commandes.

Security: The call-up includes security provisions.

Sécurité: La demande comprend des exigences en matière de sécurité.



NO
NON



YES
OUI

If YES, attach a SRCI, to the call-up

Si OUI, joindre une LVERS à la demande

Invoices must be sent in accordance with - Les factures doivent être envoyées selon :



The detailed instructions in the standing offer
Les instructions détaillées dans l'offre à commandes



The address shown in the "Ship to" block
L'adresse indiquée dans la case « Expédier à »



Special instructions below
Les instructions particulières ci-dessous

Each shipment must be accompanied by a packing or delivery slip. All invoices, bills of lading and packing slips must show the following reference numbers.

Chaque expédition doit être accompagnée d'un bordereau d'emballage ou de livraison. Les factures, connaissements et bordereaux d'emballage doivent tous porter les numéros de référence suivants.

Standing Offer No. - N° de l'offre à commandes

Requisition No. - N° de demande

Order, Off. - Bur. dem. YY - AA Serial No. - N° de série

Financial Code(s) - Code financier(s)

51880-810-120-0526-52101

Client Reference No. (optional)

N° de référence du client (facultatif)

E60SQ-020001/264/SQ

F1582

18

0026

The representative of the Identified User signing the call-up form must indicate his or her physical address. This address will constitute the address most connected with the supply and will determine, where applicable, the place of supply for this procurement.

Le représentant de l'utilisateur désigné qui signe le formulaire de commande subséquente doit indiquer son adresse municipale, qui constituera l'adresse la plus associée à l'approvisionnement et qui déterminera, le cas échéant, le lieu d'approvisionnement pour cette commande.

Amendment No. N° de modification	Previous Value (\$) Valeur précédente (\$)	Value of increase or decrease (\$) Valeur de l'augmentation ou diminution (\$)	Total estimated expenditures or revised Total des dépenses estimatives ou révisées
		20,000.00	20,000.00

Item No. N° de l'article	NATO Stock No. / Item Description N° de nomenclature de l'OTAN / Description de l'article	U. of I. U. de d.	Quantity Quantité	Unit Price Prix unitaire (\$)	Extended Price Prix calculé (\$)
1	Air charters as and when required	sum	1.00	20000.00	20,000.00

Special Instructions - Instructions particulières

Total 20,000.00

For further information, call - Pour renseignements supplémentaires, contacter

Name - Nom

Jaclyn Cleary

Telephone No. - N° de téléphone

250 756-7321

Delivery required by - Livraison requise le
(YYYY-MM-DD) (AAAA-MM-JJ)

2019-03-31

For internal purposes only - Pour usage interne seulement

Approved for the Minister - Approuvé pour le Ministre

Pursuant to subsection 32(1) of the Financial Administration Act, funds are available.
En vertu du paragraphe 32(1) de la Loi sur la gestion des finances publiques, des fonds sont disponibles.

Signature (Mandatory - Obligatoire)

Date (YYYY-MM-DD - AAAA-MM-JJ)

Signature (Mandatory - Obligatoire)

Date (YYYY-MM-DD - AAAA-MM-JJ)

Canada

PWGSC-TPSGC 942 (01/2014)

Mattu, Janice

From: DFO.Abacus.MPO@canada.ca
Sent: February-14-19 12:21 PM
To: Mattu, Janice
Subject: FYI: Standard Purchase Order F1582-180024 has been approved
Attachments: Notification Detail.html; Notification References.html

From **FORREST, ROBYN**
To **MATTU, JANICE**
Sent **14-FEB-2019 15:20:47**
ID **4369910**

Standard Purchase Order F1582-180024 has been approved.

Standard Purchase Order F1582-180024 Amount: CAD 5,000.00;

Tax: CAD 0.00.

Supplier: CORILAIR CHARTERS LTD.

Supplier Site: CAM-PO BOX 1451

Description: Air Charters as and when required

Preparer: MATTU, JANICE

Note:

Purchase Order Lines

Line	Item Number	Rev.	Item Description	UOM	Quantity	Unit Price	Line Amount
1			Air Charters as and when required	SUM-LUMP SUM/FORFAITAIRE	1	5,000.00	5,000.00

Approval Sequence

Sequence	Who	Action	Date	Note
4	FORREST, ROBYN	Approve	14-FEB-2019	
3	MATTU, JANICE	Forward	14-FEB-2019	For approval please.
2	MATTU, JANICE	Submit	14-FEB-2019	For approval please.
1	MATTU, JANICE	Reserve	14-FEB-2019	

Mattu, Janice

From: Neuman, Amber
Sent: February-14-19 12:43 PM
To: Mattu, Janice
Cc: Haaland, Melody; Pearce, Stewart; Rusch, Bryan; Thompson, Matthew
Subject: RE: Corilair and Seair PO's

Thanks Janice! We have a meeting with Seair on Tuesday and I will get them to sign the PO and I can return it to Melody.

I will have to email this to Corilair and have them return the signed copy. Unfortunately, I'm having some technical issues with my email, I can send emails to Corilair but for some reason my account is blocking anything incoming from Corilair. Hopefully this is isolated to my account and they can return the PO to Melody. Otherwise, I'll have to get someone from Campbell River to follow-up in person.

Note – I have also cc'd Stewart Pearce who will be coordinating the SOG flight program this year. All invoices should be sent to Melody for payment and cc'd to Stewart for program tracking.

Cheers,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) [REDACTED]

From: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Sent: 2019-February-14 12:29 PM
To: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Cc: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>
Subject: Corilair and Seair PO's

Hi Amber,

Please find attached the 5K Corilair PO and the 20K Seair PO.

Please provide copies of these to the vendors and ask them to sign page 3 as Supplier and return signed copies to Melody Haaland.

Note: Please remind all operators that invoices need to be send to Melody for payment.

Thanks.
Janice

Janice Mattu
Administrative Officer, Resource Management
Fisheries and Oceans Canada / Pêches et Océans Canada
South Coast Area / Secteur de la Côte Sud
3225 Stephenson Point Road / 3225 rue Stephenson Pt.
Nanaimo, BC V9T 1K3 / Nanaimo, (C.-B.) V9T 1K3
Tel: (250) 756-7257

Mattu, Janice

From: DFO.Abacus.MPO@canada.ca
Sent: February-17-19 5:01 PM
To: Mattu, Janice
Subject: FYI: Standard Purchase Order F1582-180025 has been approved
Attachments: Notification Detail.html; Notification References.html

From **HOLMES, JOHN**
To **MATTU, JANICE**
Sent **17-FEB-2019 19:59:52**
ID **4372223**

Standard Purchase Order F1582-180025 has been approved.

Standard Purchase Order F1582-180025 Amount: CAD 20,000.00;

Tax: CAD 0.00.

Supplier: SEAIR SERVICES 1990 LTD.

Supplier Site: RIC-4640 INGLIS

Description: Air charters as and when required

Preparer: MATTU, JANICE

Note:

Purchase Order Lines

Line	Item Number	Rev.	Item Description	UOM	Quantity	Unit Price	Line Amount
1			Air Charters as and when required	SUM-LUMP SUM/FORFAITAIRE	1	20,000.00	20,000.00

Approval Sequence

Sequence	Who	Action	Date	Note
4	HOLMES, JOHN	Approve	17-FEB-2019	
3	MATTU, JANICE	Forward	14-FEB-2019	For approval please.
2	MATTU, JANICE	Submit	14-FEB-2019	For approval please.
1	MATTU, JANICE	Reserve	14-FEB-2019	

Mattu, Janice

From: Neuman, Amber
Sent: February-19-19 12:18 PM
To: Peter Clarke; Terry Hiebert; Rusch, Bryan; Palfrey, Terrence; Thompson, Matthew; Pearce, Stewart
Cc: Haaland, Melody; Mattu, Janice; christy@seairseaplanes.com
Subject: Seair / DFO Spawn Flight Meeting Summary
Attachments: 2019 SOG Herring Resources-v.Feb 13.pdf; Seair-PurchaseOrder-F1582-180025-Feb2019.pdf; Seair Feb 19, 2019.docx; Draft-Roe Herring Flight Assessments-2019v.Feb4.doc

Hi all,

Thanks for participating in our meeting this morning, it was great to see everyone! Please find attached meeting summary/action items, as well as supporting documents.

Please note, all invoices to be sent to Melody Haaland and cc' Stewart Pearce (emails as above), include the contract number on the invoice for ease of tracking.

Please let me know if you have any further questions or need anything else.

Sincerely,

Amber Neuman

Resource Manager – Herring
South Coast Area, Resource Management Branch, Pacific Region
Fisheries and Oceans Canada | Government of Canada
Amber.Neuman@dfo-mpo.gc.ca | Tel: (250) 756-7246 | Cell: (250) [REDACTED]

Gestionnaire des Pêches - Hareng
Secteur de la Côte Sud, Gestion des ressources, Région Pacifique
Pêches et Océans Canada | Gouvernement du Canada
Amber.Neuman@dfo-mpo.gc.ca | Tél : (250) 756-7246 | Tél cell. : (250) [REDACTED]

RESOURCES FOR THE STRAIT OF GEORGIA ROE HERRING FISHERY - 2019

Strait of Georgia Targets:

Seine: 8,311 tons

Gillnet: 11,472 tons

TOTAL: 19,783 tons

DFO Management Staff

Bryan Rusch	SOG Seine Manager / RM Coordinator	Cell	250- [REDACTED]
Amber Neuman	SOG Seine Manager / Coast wide Roe, F&B Lead	Cell	250- [REDACTED]
Terry Palfrey	SOG Gillnet Manager	Cell	250- [REDACTED]
Stewart Pearce	Spawn Flights	Office	250-756-7227
Brenda Spence	A/Regional Pelagics Coordinator	Cell	250- [REDACTED]
Victoria Postlethwaite	Regional Herring Officer	Office	604 666-7851

DFO Conservation and Protection

Monte Bromley	C&P Nanaimo Detachment Supervisor	Cell	250- [REDACTED]
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DFO Pacific Fisheries Licensing Unit

Bob Edwards	Herring Licensing Lead	Office	604 666-2076
Email	robert.edwards@dfo-mpo.gc.ca		

DFO South Coast	250 756-7270	Fax 756-7162
DFO Nanaimo Office	250 754-0235	Fax 754-0309
DFO Operations Room	1-800-465-4336	Fax (604) 666-7369
DFO Science: Kristen Daniel (samples, test gear)	250 756-7204	Cell 250- [REDACTED]
DFO Science: Matt Thompson (dive)	250 756-7082	
JO THOMAS: Doug Tallman/Sylvia Chow	604 291-6340	
JOT Hail Number	1 866 930-4000	
Spawn Flights:		
Seair (S. SOG - Nanaimo)	1-800-447-3247	
Corilair (N. SOG - Campbell River/Comox)	1-888-287-8366	
French Creek Coastguard	250 248-2724	
Comox Coastguard	250 339-3613	
BC Ferries: Al de Koninck	250 890-7801	250- [REDACTED]
Deep Bay Harbour Manager: Daniel Wild	250-757-9331	
Fanny Bay Harbour : John Foster	250-897-5149	
Comox Harbour Wharfinger : Robert Clarke	250- [REDACTED]	250-339-6041
French Creek Harbour Manager: Julie Blood	250-248-5051	250-248-5123

MANAGEMENT PLATFORM	VESSEL MASTER	
Canadian Shore	[REDACTED] – Start Feb 25 (flexible) 15 days	604- [REDACTED]
TEST VESSELS	VESSEL MASTER	
Denman Isle	[REDACTED] – Start Feb 20 (flexible) 27 days	604- [REDACTED]
INDUSTRY FUNDED TEST VESSELS	VESSEL MASTER	
Viking Cavalier	[REDACTED]	604- [REDACTED]
Nita Maria	[REDACTED]	604- [REDACTED]
Western Investor	[REDACTED]	778- [REDACTED]
Western King	[REDACTED]	250- [REDACTED]

DIVE VESSELS	VESSEL MASTER	
Viking Spirit	[REDACTED] - Mar 13 start - 21 days	250 [REDACTED]
Ocean Cloud (SOG/CC)	[REDACTED] - Mar 13 start -12 days	250 [REDACTED]
Seaveyor 1 (Gulf/WCVI SB Dive)	[REDACTED] - Feb 20 - 5 to 10 days	250 [REDACTED]

HCRS / HIAB Greg Thomas cell 250 741-6759

BC Shellfish Growers Association: Darlene Winterburn office 250-890-7561

Communications Radio Conference and Announcement Schedule on 78A:

Feb 20 - first notice to industry (flexible start date)

Daily at 0815 hrs - first conference with DFO and charter vessels

Daily at 1005 hrs -first on-grounds announcement

Daily Conference Schedule

0815 hrs Area Test vessels to DFO Managers

0930 hrs RM email to distribution list, RHQ Ops

1005 hrs RM radio announcement to Fishing Fleet on **Ch 78A**

1700 hrs Area Test vessels to DFO Managers

1805 hrs RM radio announcement to Fishing Fleet on **Ch 78A**

Aquaculture and Public Health

Disposal of human waste into waters where shellfish are harvested or adjacent to shellfish harvest areas creates potentially serious health risks for shellfish consumers. The discharge of untreated sewage into all Canadian inland waters and Canadian coastal waters within 3 nautical miles of land is banned under the *Canada Shipping Act*. Congregations of vessels may also trigger precautionary shellfish harvest closures under the Canadian Shellfish Sanitation Program (CSSP). Vessels participating in the herring fishery are required to abide by sewage discharge regulations and are requested to minimize impact to aquaculture sites by utilizing marinas, anchoring in existing sanitary closures and minimizing congregations of vessels near shellfish aquaculture sites as much as possible.



PURCHASE ORDER

This Purchase Order is made as of the contract award date below between Her Majesty the Queen in Right of Canada (hereinafter referred to as "Her Majesty") represented by the Minister of Fisheries and Oceans (hereinafter referred to as "Fisheries and Oceans Canada") and the supplier (as named herein).

SUPPLIER – FOURNISSEUR
SEAIR SERVICES 1990 LTD. 4640 INGLIS DRIVE RICHMOND, BC V7B 1W4 Canada

ISSUED BY - PRÉPARÉ PAR
FISHERIES MGMT-SOUTH COAST 3225 STEPHENSON POINT ROAD NANAIMO, BC V9T 1K3 Tel: 2507567257 E-mail: JANICE.MATTU@DFO-MPO.GC.CA

COMMANDE D'ACHAT

Cette commande d'achat est faite en date d'octroi de contrat ci-dessous entre Sa Majesté la Reine du chef du Canada (ci-après appelée "Sa Majesté") représenté par le Ministre des Pêches et Océans Canada (ci-après appelé "Pêches et Océans Canada") et le Fournisseur (tel qu'indiqué dans les présentes).

IMPORTANT The Contract No. must appear on invoices, B/L, packing lists, correspondence and outside containers. Le No. de contrat doit être indiqué sur les factures, les connaissements, les listes d'emballage, la correspondance et à l'extérieur des contenants.	
Contract No./ No. de contrat.	F1582-180025
Amend. No./No. de modif	0

Contract Award Date/ Date d'octroi de contrat	14-FEB-2019
Address Enquiries to - Adresser toute demande à FORREST, ROBYN Tel: E-mail: ROBYN.FORREST@DFO-MPO.GC.CA	

This purchase document references Standing Offer Agreement Number /

Ce document d'achat fait référence à un numéro d'entente d'offre à commandes E60SQ-020001/152/SQ

SHIP TO/ EXPÉDIER À: F1582	BILL TO/ FACTURER À: DFO.invoicing-facturation.MPO@canada.ca
FISHERIES MGMT-SOUTH COAST 3225 STEPHENSON POINT ROAD NANAIMO, BC V9T 1K3 Canada	DFO-ACCOUNTS PAYABLE/MPO-COMPTES PAYABLE PO BOX 1901, STN A / CP 1901, STN A FREDERICTON, NB E3B 5G4 Canada Attn: MATTU, JANICE

Departmental Financial Codes - Codes financiers ministériel 51880-810-120-0526-52101-6		Freight Terms - Conditions pour les frais de transport	
		Contract End Date - Date de fin du contrat	
FOB – FAR	PST No. - N° de TVP Exemption	HST/GST - TPS / TVH EXTRA	Estimated Total Cost - Prix total prévu 20,000.00 CAD (Tax excluded)/(Taxe exclue)

Continued/ suite...



PURCHASE ORDER
(Continuation sheet)

COMMANDE D'ACHAT
(suite)

P.O. No. - N° de commande
F1582-180025
Amend. No. - N° de modif.
0

The Vendor agrees to provide to Fisheries and Oceans Canada the goods or services identified at the specified prices and in accordance with all terms and conditions of this Purchase order.

Le Fournisseur accepte de fournir Pêches et Océans Canada les biens ou services identifiés dans les présentes en conformité avec les prix spécifiés et avec les modalités de cette commande d'achat.

Continued/ suite...

Item no. No Article	Description Description	Delivery Date Date de livraison	Quantity Quantité	U of I U de D	Unit Price Prix unitaire	Extended Cost Prix total prévu
1	Air Charters as and when required	31-MAR-19	1	SUM-LUMP SUM/FORFA ITAIRE	20,000.00	20,000.00



PURCHASE ORDER
(Continuation sheet)

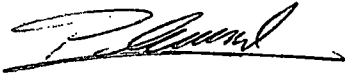

COMMANDE D'ACHAT
(suite)

P.O. No. - N° de commande	F1582-180025
Amend. No. - N° de modif.	0

The following documents form part of this Purchase Order. The supplier recognizes and agrees to all terms and conditions set out in this request, including:

Les documents ci-joints font partie intégrale de cette commande d'achat. Le Fournisseur convient et accepte tous les termes et conditions tels que décrits dans cette demande, incluant:

Continued/ suite...

FOR THE SUPPLIER - POUR LE FOURNISSEUR		
Signature 	Witness - Témoin 	Date FEB 19, 2019
Print or type - Imprimer ou dactylographier Peter Clarke	Position title - Titre du poste President	
Signature	Witness - Témoin	Date
Print or type - Imprimer ou dactylographier	Position title - Titre du poste	
APPROVED FOR THE MINISTER - APPROUVÉ POUR LE MINISTRE		
Signature	Position title - Titre du poste	Date
Print or type - Imprimer ou dactylographier		

DFO / Seair Herring Spawn Flight Pre-Season Meeting- Feb 19, 2019

Date:	February 19, 2019
Location:	Seair Nanaimo
Organization:	Seair
Organization Attendee's	Peter Clark, Terry Hiebert
DFO Attendee's	Amber Neuman, Bryan Rusch, Matt Thompson, Stew Pearce
General Topic	Herring Spawn Overflights
Agenda Items:	<ol style="list-style-type: none"> 1. Spawn flight program - Purpose and goals <ul style="list-style-type: none"> • Main focus of program is to direct the dive surveys • Also used to help direct the gillnet fleet 2. In season communication contacts, personnel and process to book <ol style="list-style-type: none"> a. Seair - <ul style="list-style-type: none"> • Terry Hiebert will be the pilot • Call Richmond to book flights 1-800-447-3247 - press 1 for dispatch • Contact Terry on cell for short notice or weather updates 604-██████████ • Contact Peter Clark to setting up additional purchase orders (if additional funds become available from Resource Management) b. DFO – <ul style="list-style-type: none"> • Stew Pearce will be the main contact cell - 250-██████████, office 250-756-7227 • See SOG Resource List for additional contacts • Matt Thompson & Stew will alternate days flying until Amber & Bryan off the management platform. • Amber & Bryan - Seine managers on management platform ~Feb 25-Mar 12 - available 24hr/day • Terry Palfrey - Gillnet manager 3. Staging of plane in Nanaimo – Date of first flight <ul style="list-style-type: none"> • Stew will call all flights into dispatch. • Thurs - Feb 21 @ 9:00 - Amber & Stew flying. • Second flight - Stew & Matt will go up for training after first reports of spawn (late Feb). • Stew can txt Terry for weather updates.

s.19(1)

s.16(2)(c)

s.19(1)

	<ul style="list-style-type: none">• In general will be flying alternate days (rather than daily) due to budget constraints• When flying regularly, will stage plane in Nanaimo. Terry flies over in morning.• GPS, flight tracking available on plane. Seair provides a print-out of flight track after flights.• Storing DFO backpack at Seair <p>4. Flight route, early vs. later in program</p> <ul style="list-style-type: none">• Normal route - mostly focused north• Discussed route to try to get photos of key areas for aquaculture.• If reports South of Dodd or Powell River side will check it out - usually later in season <p>5. Radio communication and GPS</p> <ul style="list-style-type: none">• Planes are equipped with GPS.• Radios are available but most communication will be through txt message. <p>6. Payment Process</p> <ul style="list-style-type: none">• Send invoices to Science Admin for payment - Melody Haaland (Melody.Haaland@dfo-mpo.gc.ca), Stew (stewart.pearce@dfo-mpo.gc.ca)• Include contract number on invoice• Updates from Seair - send weekly at start, then daily when closer to end of budget• Finance/Invoicing Questions - christy@seairseaplanes.com (Christy Clark) - 604-██████████• Continue what has been in past years - has worked well• If additional funds received from Resource Management, will update on process / contacts for payment. <p>7. Budget and tracking</p> <ul style="list-style-type: none">• Stew will track flights and budget <p>8. Safety</p> <ul style="list-style-type: none">• Backpack - Amber will bring down at first flight, includes lifejackets, and books• Best if only two people fly. Spotter and one other.<ul style="list-style-type: none">○ May have First Nations, Resource Management, Science and/or C&P joining.○ Max 2 people + pilot
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Relevant Documents	Purchase Order SOG Resource Flight Assessment Doc
Action Items	Action: Amber send docs/notes to Seair and DFO Action: Amber & Stew bringback pack to Seair on Thursday Action: Stew to call dispatch to book Thursday flight

Roe Herring Flight Assessments: Strait of Georgia

Roe herring flight assessments are conducted annually throughout the herring season in the SOG primarily to track spawning events but also in support of the fisheries and at times to locate stocks. Over flights can be an effective way of assessing large areas for spawn and in some cases for stock presence, in a relatively short period of time given the right light, wind, and sea conditions.

The first flights are generally done early in season when the first small spots spawns are observed/reported. Although an early season first flight should be considered even without any reported spawning as is useful to ensure that the pilot, aircraft, GPS, and communication system can be tested when there is relatively little activity and the time to make any necessary adjustments/repairs. Safety is the number one priority and the initial flight is an important opportunity to assess and ensure that one feels safe and confident with the pilot's skills, habits, and judgement as well as the maintenance and condition of the aircraft. Remember if you don't feel safe don't go. Also one must observe the government standing offers in the area and generally can choose between more than one operator and feeling and being safe while doing this work is essential.

Generally most flying for spotting roe herring spawn and stock is done "low and slow" in good weather conditions through the expected critical areas to assess spawn, stock moving in the spawn, or fish rolling in and off the beach. An altitude of 500 feet with more "flap" is preferred, with the plane following the shoreline contour allowing the "spotter" (in the front seat opposite the pilot) to look directly into the water from the upper intertidal area to depths of 20 to 30 feet at the slowest safe speed in critical areas. Abrupt turns may be required to see fish in the shallows as they are most visible if directly over head. It is useful/recommended to consult recent sounding information before each flight in order to know generally what areas have been sounded/assessed and where stocks have been located to that time and to know their maturity if tests have been done. In addition, it is important to be familiar with the local areas in order to know if there are specific conditions in an area, such as areas where there are silt washes that can mimic spawn.

Aircraft should be equipped with all safety gear, EPIRB, radios, and a GPS tracking system so any spawns observed can be quantified as their length. Spawning intensity is normally classified as to the amount of milt in the area and described as very light, light, medium, heavy or intense, and very heavy or intense. Also if flying in an area and at time the gillnet fleet is working the number of gillnet punts (and nets) should be counted and the rate of fishing or "shaking" should be quantified as light, medium, and heavy. "Light shakes" generate 500 to 2000 lbs per shake, "Medium shakes" 2 to 3 tons per shake and Heavy Shakes 3++ tons per shake. This information can be relayed over the radio to management staff on the grounds while in flight.

In areas that have not been sounded recently it is useful to note locations and concentrations of sea birds, seals, and sealions as indicators of possible fish presence and to include this information with the spawn summary to the managers on the grounds.

Often these animals will be on fish especially if concentrated in number. Fish in shallow waters appear as dark masses initially, similar to vegetation patches.... but they move and will flash in the right light – try to hold your head still and look at the dark patches long enough to see if they change in shape. Then try to turn on these schools while directly overhead for a better view and insight into how much fish may be showing. Areas of active spawn should always be quantified by length and intensity. The spawn record for the area should be updated as soon after the flight as is possible and any stock information, wildlife presence, should be relayed to the managers on the grounds as soon as possible.

Flight information is called into the on grounds vessel on the DFO radio (3C) during the flight so that the flight information can be updated and distributed as soon as possible. When passing the information over the radio, it is good to use a consistent format for the person who is recording the information, as it can be difficult to hear over the radio and plane noise. Using *area of spawn*, *length of spawn* and *intensity of spawn* for each transmission assists in recording information. Relative spawn distribution for previous days (expanding, or reduced for example) is also useful. The DFO frequency is monitoring by external people so it is important to keep information clear, brief, and professional. Spawn locations are recorded on charts of the area, and transcribed onto charts for distribution to managers, and dive vessels following the flight.

NEW 2019 – PUBLIC HEALTH AND SHELLFISH AQUACULTURE

The presence and potential discharges from the roe herring fleet in close proximity to shellfish harvest areas poses potentially serious health risks for shellfish consumers. DFO has committed to assisting Environment and Climate Change Canada in assessing herring vessel congregations that may trigger precautionary shellfish harvest closures under the Canadian Shellfish Sanitation Program (CSSP). When flights take place over identified key areas, those conducting spawn flights will be required to take photos of those areas and submit a brief report to DFO shellfish aquaculture daily, who will in turn coordinate a report to ECCC. Key Shellfish Aquaculture Harvest Areas:

- Deep Bay
- Fanny Bay
- Henry Bay
- Union Bay

Information to be provided to shellfish.aquaculture@dfo-mpo.gc.ca following each flight:

- Date/Time of flight
- Photos of key areas
- Contact information of the person flying

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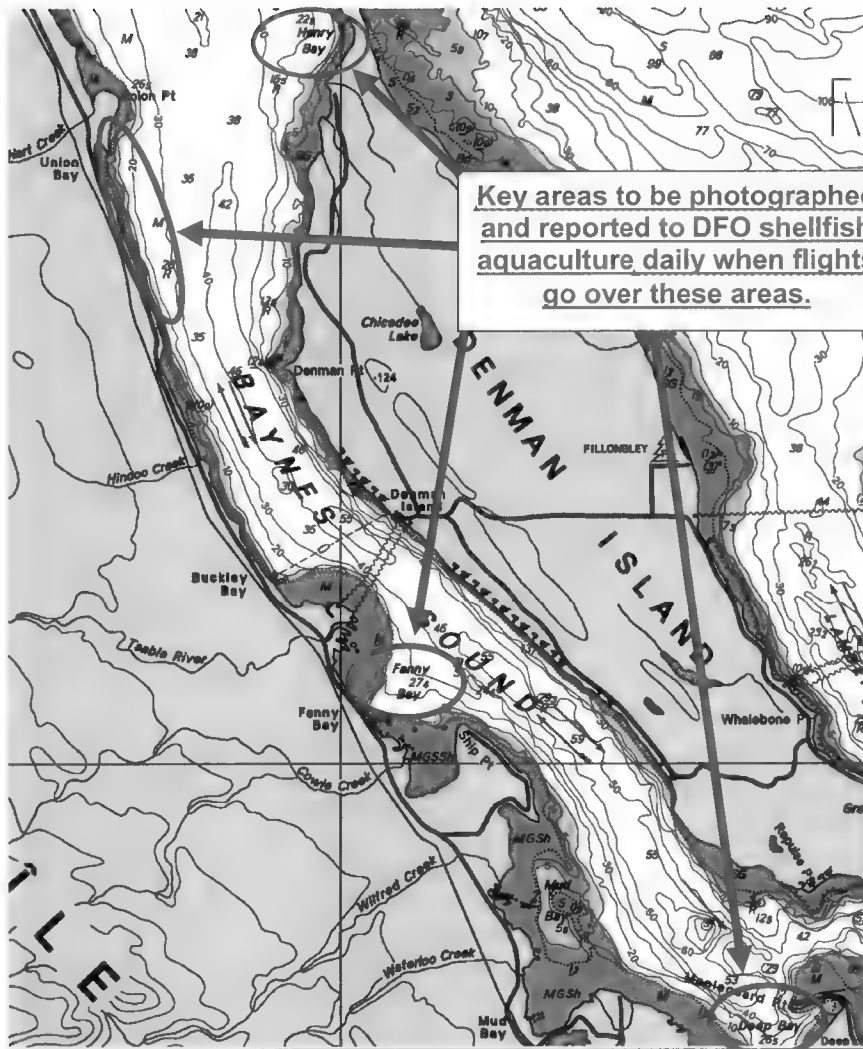
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Mattu, Janice

From: Rusch, Bryan
Sent: February-26-19 1:05 PM
To: Mattu, Janice
Subject: RE: Herring OT and Budgets

Hello Janice,

Yes. I believe we are still planning to cover some of Stew's salary and any overtime that he incurs. Laura had originally said she would pay the entire salary for whoever I found to coordinate the flight program but she has since said that she will cover the time spent on the program. I would expect that two weeks will be adequate.

Ryan's OT will likely be [REDACTED] but would not expect more than [REDACTED].

Rest look good.

Thanks,

Bryan

From: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Sent: Tuesday, February 26, 2019 11:10 AM
To: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>
Subject: RE: Herring OT and Budgets

Thanks Bryan – a few questions –

- 1) Are we still paying for 2 weeks of Stew's salary? Plus OT?
- 2) How much to you anticipate Ryan will accrue in OT hours? It's hard to estimate if I have no idea – is it [REDACTED]?

If I do a quick estimate it would look like:

SCA Herring salary expenses 2018/19-estimate		
Expense Description	Expense Cost	Estimate hours at straight time
Bryan Rusch Herring OT		255
Terry Palfrey Herring OT		252.5
Mike Spence Herring OT		67.6
Stew Pearce Herring OT		46
Stew Pearce Herring salary		
Ryan O'Connell OT		???
OVERTIME TOTAL	\$30,200	

Does this seem correct?

From: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>
Sent: February-26-19 9:40 AM
To: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Subject: Herring OT and Budgets

Hello Janice,

I've talked with everyone who I can think of that might be involved with herring in South Coast to find out what they would like to do with their overtime and if they have any other expenses they are expecting between now and the end of March. Below is a bit of a jumbled list but

For Overtime:

Terry – will take mostly [REDACTED]. Cost will likely be similar to the last few years.
Bryan – [REDACTED] but bulk will be [REDACTED]. Cost similar to recent years
Amber – Plans to take all herring OT [REDACTED].
Stew – [REDACTED]. I don't expect Stew to have a lot of OT maybe [REDACTED]
Mike – [REDACTED]. Should be similar cost to last year.
Ryan – Plans to [REDACTED] but would potentially [REDACTED] if we wanted him to.

For Expected Expenses:

Bryan - \$350 incidentals while on the boat plus a ferry receipt for Hornby Island he still needs to put through petty cash.
Amber - \$300 incidentals while on the boat. \$150 other miscellaneous
Terry - \$100 phone case and charger.
Ryan - \$250 meals (lunch) for WCVI spawn flights. He has to travel to Ukee for the flights so I'm assuming he will claim lunch.
Total: \$1150

Other Expenses:

\$880 for Port Alberni Storage Locker
\$5,000 for spawn flights (not spent yet but has been earmarked).
ARI costs for the Ford Escape?
Port Alberni Tuck expenses? I think these come out of the Maa-nulth budget but I'm not sure.
Outstanding Travel Claims? I didn't specifically ask everyone if they had any travel that they haven't claimed yet but I will follow up on this.

If we have any funds left, Mike Spence was going to price out some sort of gadget which he can use to link his work phone [REDACTED] calls better. He will get back to me before going ahead but thought it was round \$300 to \$400.

I'll come by your office to discuss if you are available today as this is my last day in the office. I think that we are in good shape provided nothing has changed since the last estimate of just over 10K remaining. I think we may have some additional funds still remaining that I would plan to also direct to spawn flights but I would likely not want to do that for another couple weeks.

Thanks,

Bryan Rusch
Fisheries Management Coordinator
Fisheries and Ocean Canada
3225 Stephenson Point Road, Nanaimo BC.

Phone: (250) 756-7294

Cell: (250) [REDACTED]

Email: bryan.rusch@dfo-mpo.gc.ca

Mattu, Janice

From: McElhaney, Elizabeth
Sent: March-08-19 1:34 PM
To: Nugent, Kim
Cc: Mattu, Janice
Subject: RE: Herring OT and staff plan - surplus

Thanks Kim. Janice has calculated the SFAB deficit (BL 412 O&M), and it will be 8.1 K, meaning we need 6.75 K in salary to offset it. The salary surplus of 13.86 K minus 6.75 K leaves a surplus of 7.11 K. I will let David Schneider know...I spoke with him a few days ago, and he indicated that FM would need our surplus to offset other deficits, meaning we can't spend it ourselves.

Elizabeth

From: Nugent, Kim <Kim.Nugent@dfo-mpo.gc.ca>
Sent: March-01-19 12:56 PM
To: McElhaney, Elizabeth <Elizabeth.McElhaney@dfo-mpo.gc.ca>; Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Subject: RE: Herring OT and staff plan - surplus

The actings are entered in the staff plan and SMIS now, leaving a 13.86K surplus before the SFAB stuff.

Thanks,
Kim

From: Nugent, Kim
Sent: March-01-19 11:18 AM
To: McElhaney, Elizabeth <Elizabeth.McElhaney@dfo-mpo.gc.ca>; Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Subject: RE: Herring OT and staff plan - surplus

NOPE! That's on my list. I will do it now and see what's left.

From: McElhaney, Elizabeth <Elizabeth.McElhaney@dfo-mpo.gc.ca>
Sent: March-01-19 11:10 AM
To: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Cc: Nugent, Kim <Kim.Nugent@dfo-mpo.gc.ca>
Subject: RE: Herring OT and staff plan - surplus

Thanks Janice! I will follow up with FM on whether we can use the surplus to offset the BL 412 O&M deficit for SFAB, great idea. I was wondering, is your acting from last week entered in the staffing plan yet? We should enter your acting and Kim's, to make sure we have funds for those before we give away the remaining surplus. Then we can calculate what the remaining surplus is (14.2 minus acting pay minus SFAB amount...) and I can brainstorm some ideas for the remainder. Thank you.

Elizabeth

From: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>

Sent: March-01-19 10:53 AM

To: Nugent, Kim <Kim.Nugent@dfo-mpo.gc.ca>; McElhaney, Elizabeth <Elizabeth.McElhaney@dfo-mpo.gc.ca>

Subject: Herring OT and staff plan - surplus

Good morning Elizabeth and Kim,

I have been back and forth with Bryan working on herring OT and I have now added the estimated amounts to each person's row in the March staff plan.

Total amount of herring OT estimated for this fiscal is: 31.7K

We had set aside more than this so we now have a 14.2K surplus on our staff plan.

I'm not sure how we want to address this?

One thought was to use some to offset the SFAB meeting this month, but it won't be enough to use up 14.2K.

Any other ideas?

Thx,
Janice

Janice Mattu

Administrative Officer, Resource Management
Fisheries and Oceans Canada / Pêches et Océans Canada
South Coast Area / Secteur de la Côte Sud
3225 Stephenson Point Road / 3225 rue Stephenson Pt.
Nanaimo, BC V9T 1K3 / Nanaimo, (C.-B.) V9T 1K3
Tel: (250) 756-7257

Mattu, Janice

From: Neuman, Amber
Sent: March-13-19 12:52 PM
To: Pearce, Stewart; Mattu, Janice; Rusch, Bryan
Cc: Preston, Paul
Subject: RE: Extra funding

Hi Stew,

The funding just has to be used by the end of fiscal. It's still pretty critical to be flying daily right now so I would continue with that plan until we see a significant spawn.

Cheers,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) [REDACTED]

From: Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>
Sent: 2019-March-13 12:25 PM
To: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>; Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Cc: Preston, Paul <Paul.Preston@dfo-mpo.gc.ca>
Subject: RE: Extra funding

Sounds good Janice will do. Bryan and/or Amber: is it best to use these extra funds asap or save them for the back end of the season?

Stew

From: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Sent: March 13, 2019 11:57 AM
To: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>
Cc: Preston, Paul <Paul.Preston@dfo-mpo.gc.ca>
Subject: RE: Extra funding

Good morning Stewart,

When you fly against the PO that Paul has set up, please provide the invoice to me (or Julie Knox if I am away).

Thanks,
Janice

From: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>
Sent: March-12-19 1:45 PM
To: Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>

Cc: Preston, Paul <Paul.Preston@dfo-mpo.gc.ca>; Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>

Subject: Re: Extra funding

Sounds good Stew.

From: Pearce, Stewart

Sent: Tuesday, March 12, 2019 1:34 PM

To: Neuman, Amber; Rusch, Bryan; Thompson, Matthew

Cc: Preston, Paul; Mattu, Janice

Subject: Extra funding

Hi Amber and Bryan,

Paul Preston has informed me that he has sent some extra funds to Janice for the flight program. Not sure of the exact amount yet but sounds like enough for an extra flight or two.

Cheers,

Stew

Stewart Pearce

Salmon Stock Assessment Technician

South Coast Area, Fisheries and Oceans Canada

3225 Stephenson Point Road, Nanaimo, BC, V9T 1K3

Office: 250.756.7227

Cell: 250. [REDACTED]

E-mail: stewart.pearce@dfo-mpo.gc.ca

s.16(2)(c)

Mattu, Janice

From: Rusch, Bryan
Sent: March-20-19 11:11 AM
To: Neuman, Amber
Cc: Pearce, Stewart; Thompson, Matthew; Mattu, Janice; Knox, Julie
Subject: RE: SOG spawn flights

There are a couple things on the go for Sea Air....We have an additional 2K from the treaty budget which I believe Stew has everything in place for to utilize for tomorrows flight.

From the RM budget, another 7.5K is available for spawn flights. Janice was working on the call-up for this before she left so the PO may need signature but I believe Stew and Julie are sorting this out.

In total, we should have funds for roughly 5 more flights between now and the end of fiscal. Meaning tomorrow's flight, plus 4 more.

Thanks,

Bryan

From: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Sent: Wednesday, March 20, 2019 9:59 AM
To: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>
Cc: Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>; Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>; Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>
Subject: RE: SOG spawn flights

Hi Bryan,

I can't find anything about the RM call-up for the additional \$5K for spawn flights beyond what you provided in the below email. Do you have the call-up info? I'm assuming that the purchase order would still need to be signed by Seair as well.

Thanks,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) [REDACTED]

From: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>
Sent: 2019-February-23 3:07 PM
To: Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>; Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>; Daniel, Kristen <Kristen.Daniel@dfo-mpo.gc.ca>; Spence, Brenda <Brenda.Spence@dfo-mpo.gc.ca>; Postlethwaite, Victoria <Victoria.Postlethwaite@dfo-mpo.gc.ca>; Palfrey, Terrence <Terrence.Palfrey@dfo-mpo.gc.ca>
Cc: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Subject: SOG spawn flights

Hello,

In reviewing my budget on Friday with Janice, I have some money that has been freed up which I have now earmarked for spawn flight in the SOG. An additional 5K is available at this point to add to the 25K budget from Stock Assessment for a total of 30K.

I believe that Janice has done the call up for this already (I think is signed it on Friday), and tracking and involving for this 5K will need to be done separately as it will be paid by Janice from the RM budget.

This should add another 3 to 4 flights to the program for this season and help bring us back to near what we have done in recent years.

Let me know if there are any questions.

Thanks,

Bryan Rusch

Phone: (250) 756-7294

Cell: (250) [REDACTED]

Email: bryan.rusch@dfo-mpo.gc.ca

s.16(2)(c)

Mattu, Janice

From: Knox, Julie
Sent: March-27-19 1:52 PM
To: Haaland, Melody; Thompson, Matthew
Cc: Mattu, Janice
Subject: RE: Seair flights F1582-180025 - no money left to pay remaining invoices

I've already sent the \$5K increase to John for approval in Abacus.

I'm not processing or paying any invoices - that's what I was trying to clear up. Janice will be back on Monday and you have until April 5th to match/code them.

Thanks,

Julie Knox - Admin Officer

Julie.Knox@dfo-mpo.gc.ca / Tel: 250-756-7288

From: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>
Sent: March-27-19 1:19 PM
To: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>; Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>
Cc: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Subject: RE: Seair flights F1582-180025 - no money left to pay remaining invoices

Hi Matt, the invoices below total \$8,491.80 pretax...so I'd need to increase the call up by at least that much to be able to pay them? \$5 would not be enough?

Regards,

Melody Haaland

Administrative Assistant, Science Branch / Pacific Region - Stock Assessment & Research Division (StAR)
Fisheries and Oceans Canada / Government of Canada
melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071

From: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Sent: March-27-19 11:46 AM
To: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>; Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>
Cc: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Subject: RE: Seair flights F1582-180025 - no money left to pay remaining invoices

Thanks Melody. The invoices below should be under the F1582-180025 call up (once John signs off).
Invoices from Mar 21 onward will be under the RM funds.

Thanks for sorting out.

From: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>
Sent: March-27-19 11:42 AM
To: Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>
Cc: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>; Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>

Subject: RE: Seair flights F1582-180025 - no money left to pay remaining invoices
Importance: High

Hi Julie, thanks for doing that! Please forward to John Holmes for approval.

I'm a bit confused as to which invoices I'm supposed to process and which ones you are processing.....if you're forwarding them to Invoicing, then please ensure to cc Matt Thompson as he's keeping track of them. Once the increase has been approved, I can process some of them.

So maybe **Matt** can clarify which ones I'm supposed to pay and which ones you are paying. I currently have the following outstanding invoices that I sent to Invoicing that need to be paid.

March 13 Invoice No. 31532 \$1698.30 pretax, \$1783.22 incl GST
March 14 Invoice No. 31533 \$1598.40 pretax, \$1678.32 incl GST
March 17 Invoice No. 31540 \$1798.20 pretax, \$1888.11 incl GST
March 18 Invoice No. 31541 \$1698.30 pretax, \$1783.22 incl GST
March 19 Invoice No. 31543 \$1698.30 pretax, \$1783.22 incl GST

Regards,

Melody Haaland

Administrative Assistant, Science Branch / Pacific Region - Stock Assessment & Research Division (StAR)
Fisheries and Oceans Canada / Government of Canada
melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071

From: Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>
Sent: March-27-19 11:07 AM
To: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>
Cc: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>; Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Subject: RE: Seair flights F1582-180025 - no money left to pay remaining invoices

Hi Melody,

Looks like I can edit the PO/Call-up. Who do I send it to for approval?

Also, to clarify, I am not processing the invoices for flights – I am forwarding Janice's invoices to the Invoicing email on her behalf, and she is processing them when she returns. So if there are invoices already in your Markview/working folder that you don't intend to process you can reroute them to Janice in Markview. They shouldn't need to be resubmitted, and they shouldn't be routed to me for processing.

Thanks,
Julie Knox - Admin Officer
Julie.Knox@dfo-mpo.gc.ca / Tel: 250-756-7288

From: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>
Sent: March-27-19 10:54 AM
To: Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>; Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>
Cc: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Subject: FW: Seair flights F1582-180025 - no money left to pay remaining invoices

Hi Julie, as Janice is away.....I just tried to increase the Seair Callup F1582-180025 to \$25K in Abacus as per Matt's instructions below, but it's not letting me open the Lines to add a \$5k line (open button is greyed out as per below). I'm not sure if it's because it's not our PO (F1693). Are you able to try and let me know if you're able to do it please? tx

Purchasing Org	Number	Line	Item	Item Rev	Category	Description
DFO Operating	F1582-180025	1			78.11.15.03	Air Charters as anc

Shipments New Release New PO Open

Regards,

Melody Haaland

Administrative Assistant, Science Branch / Pacific Region - Stock Assessment & Research Division (StAR)
 Fisheries and Oceans Canada / Government of Canada
melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071

From: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Sent: March-27-19 10:22 AM
To: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>
Subject: RE: Seair flights F1582-180025 - no money left to pay remaining invoices

Thanks Melody. If we can amend to 25k (adding 5K to the 20K) that would work and should cover the flights science would be paying for.

From: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>
Sent: March-27-19 9:56 AM
To: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Subject: RE: Seair flights F1582-180025 - no money left to pay remaining invoices
Importance: High

Hi Matt, I've cancelled the Corilair call-up, please see the snip below. I was talking to another Admin and she said it would be easier to amend the current call-up we have with Seair by increasing it from \$20k to whatever amount.....up to \$100K which is the max (snip below). If I create a new call-up for Seair, the date of the call-up will be AFTER the date of all the invoices I have already received....

Purchasing Org							
Purchasing Org	Number	Line	Item	Item Rev	Category	Description	C
DFO Operating	F1582-180024	1			78.11.15.03	Air Charters as anc	D

SEAIR SEAPLANES (E60SQ-020001/152/SQ)

Description

Fixed Wing Aircraft (Airplane) (Air Transport Services)

Details

Agreement number E60SQ-020001/152/SQ

Amendment number 005

Agreement type National Master Standing Offer

Start date 2003-04-01

Expiry date 2023-05-31

Minimum value  None

Maximum value  CAD 100 000.00

Mandatory commodity Non-mandatory

Goods and Services Identification Number V201A - Fixed Wing Aircraft - Airplane Charter

Comprehensive Land Claim Agreement No

Department, Public Works and Government Services Canada

Supplier information

Standardized name

Legal name

Operating name

Contact

Federal contact

Contact name

Contact phone

Fax

Contact email

Additional information

Not available

Regards,

Melody Haaland

Administrative Assistant, Science Branch / Pacific Region - Stock Assessment & Research Division (StAR)
Fisheries and Oceans Canada / Government of Canada
melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071

From: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Sent: March-26-19 2:41 PM
To: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>
Subject: FW: Seair flights F1582-180025 - no money left to pay remaining invoices

Hi Melody,

So I forgot the Seair call-up was only 20K and we had 5K for Coralair (which we did not use). Can we cancel the Coralair call-up and create a 5K call-up for Seair to cover the 4.8K we've used.
Julie should be receiving and entering the invoices from the remaining flights for RM.

Thanks
Matt

From: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>
Sent: March-26-19 2:28 PM
To: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Cc: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>; Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>
Subject: Re: Seair flights F1582-180025 - no money left to pay remaining invoices

Matt, does this mean the solution is to send the invoices to RM for payment against these call-ups?

On Mar 26, 2019, at 2:24 PM, Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca> wrote:

Two call-ups have been produced:

F1582-180034 for \$2100
F1582-180028 for \$7500

From my spreadsheet we totalled pre-gst \$24870.11 for 15 flight from Feb 21st to Mar 19th.

Remaining flights will be RM money from the two call-ups above. So far three flights have gone under this money (Mar 21st, 23rd and 25th).

From: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>
Sent: March-26-19 2:15 PM
To: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Cc: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>; Haaland, Melody

<Melody.Haaland@dfo-mpo.gc.ca>

Subject: Re: Seair flights F1582-180025 - no money left to pay remaining invoices

Importance: High

Bryan, Amber:

Do you know have the coding for the extra 5K for spawn flights in SOG (being paid for by RM)?

Jaclyn Cleary

Program Head- Pacific Herring
Quantitative Assessment Methods Section (QAMS)
Stock Assessment and Research Division, Science
Fisheries and Oceans Canada, Government of Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tel: 250-756-7321

Section de méthode d'évaluation quantitatif (SMEQ)
Division de l'évaluation des stocks et de la recherche, Science
Pêches et océans Canada, Gouvernement du Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tél: 250-756-7321

On Mar 26, 2019, at 2:12 PM, Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca> wrote:

Hi, I have 3 invoices from Seair but no money left to pay it from the Call-up? I have the March 17, 18 & 19, 2019 invoices. Invoice No. 31540, 31541 and 31543.

And after looking through the spreadsheet, I apologize but I missed submitting Invoice No. 31532 March 13, 2019 and 31533 March 14, 2019 invoices (listed as 31352 and 31353 on attached spreadsheet) which I can submit today to DFO Invoicing. So technically 5 invoices from Seair to pay but the call-up has no money left to pay them from the \$20k as per screenshot below, there's only \$419.60 left available to match for this Call-Up.

I've attached a copy of all the outstanding Seair invoices that still need to get paid. Please advise. In your email below you said "All other flights will now have to be under RM money and a new call-up needs to be in place" – what's the RM coding? Has a new call-up been put in place??? Please let me know. tx!!!

<image001.png>

Regards,
Melody Haaland
Administrative Assistant, Science Branch / Pacific Region - Stock Assessment
& Research Division (StAR)
Fisheries and Oceans Canada / Government of Canada
melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071

From: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Sent: March-20-19 9:13 AM
To: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>; Rusch, Bryan
<Bryan.Rusch@dfo-mpo.gc.ca>; Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>
Cc: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>; Cleary, Jaclyn
<Jaclyn.Cleary@dfo-mpo.gc.ca>
Subject: Seair flights

Good morning,

FYI. Including yesterday's flight (March 19th), we will have reached the cap of the 25k for the Seair science call-up (F1582-180025). All other flights will now have to be under RM money and a new call-up needs to be in place.

Thanks

Matt

<2019 Spawn Budget Summary SOG.xlsx><Outstanding Seair Invoices F1582-180025.pdf>

Mattu, Janice

From: Knox, Julie
Sent: March-28-19 3:33 PM
To: Mattu, Janice
Subject: FW: April 1 Seair Call-up for signature
Attachments: 942.pd.pdf

Thanks,
Julie Knox - Admin Officer
Julie.Knox@dfo-mpo.gc.ca / Tel: 250-756-7288

From: Knox, Julie
Sent: March-28-19 3:18 PM
To: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>
Subject: April 1 Seair Call-up for signature

Here is the call-up for Seair as requested. I will enter in Abacus and route to John for approval.

Thanks,
Julie Knox

Admin Officer
South Coast Area / Pacific Region
Fisheries and Oceans Canada / Government of Canada
Julie.Knox@dfo-mpo.gc.ca / Tel: 250-756-7288

Secteur de la côte sud / Région du Pacifique
Pêches et Océans Canada / Gouvernement du Canada
Julie.Knox@dfo-mpo.gc.ca / Tél: 250-756-7288



Call-up Against a Standing Offer

Commande subséquente à une offre à commandes

Ship to - Expédier à

Fisheries and Oceans Canada
3225 Stephenson Point Road
Nanaimo BC

F1582

V9T 1K3

Supplier - Fournisseur

Seair Seaplanes
(Seair Services 1990 Inc.)
4640 Inglis Drive
Richmond BC

To the supplier: The standing offer identified below is accepted as follows: You are required to supply the goods or services, or both, shown below at the prices or on the pricing basis stated and in accordance with the other conditions stated in the standing offer. Only goods or services, or both, included in the standing offer will be supplied in the call-up against the standing offer.

Au fournisseur: L'offre à commandes indiquée ci-dessous est acceptée selon les modalités suivantes : Vous devez fournir les biens ou les services, ou les deux, indiqués ci-dessous selon les prix ou la base de tarification établie, et conformément avec les autres conditions stipulées dans l'offre à commandes. Seuls les biens ou les services, ou les deux, inclus dans l'offre à commandes seront fournis dans la commande subséquente à l'offre à commandes.

Security: The call-up includes security provisions.**Sécurité : La demande comprend des exigences en matière de sécurité.**☒ NO
NON☐ YES
OUIIf YES, attach a SRCL to the call-up
Si OUI, joindre une LVERS à la demande

Invoices must be sent in accordance with - Les factures doivent être envoyées selon :

☐ The detailed instructions in the standing offer
Les instructions détaillées dans l'offre à commandes☐ The address shown in the "Ship to" block
L'adresse indiquée dans la case « Expédier à »☒ Special instructions below
Les instructions particulières ci-dessous

Each shipment must be accompanied by a packing or delivery slip. All invoices, bills of lading and packing slips must show the following reference numbers.

Chaque expédition doit être accompagnée d'un bordereau d'emballage ou de livraison. Les factures, connaissements et bordereaux d'emballage doivent tous porter les numéros de référence suivants.

Financial Code(s) - Code financier(s)
51880-810-120-0526-52101

Standing Offer No. - N° de l'offre à commandes

Requisition No. - N° de demande
Order. Off. - Bur. dem. YY - AA Serial No. - N° de sérieClient Reference No. (optional)
N° de référence du client (facultatif)

E60SQ-020001/152/SQ

F1582

19

0001

The representative of the Identified User signing the call-up form must indicate his or her physical address. This address will constitute the address most connected with the supply and will determine, where applicable, the place of supply for this procurement.
Le représentant de l'utilisateur désigné qui signe le formulaire de commande subséquente doit indiquer son adresse municipale, qui constituera l'adresse la plus associée à l'approvisionnement et qui déterminera, le cas échéant, le lieu d'approvisionnement pour cette commande.

Amendment No. N° de modification		Previous Value (\$) Valeur précédente (\$)		Value of increase or decrease (\$) Valeur de l'augmentation ou diminution (\$) 5,000.00		Total estimated expenditures or revised Total des dépenses estimatives ou révisées 5,000.00	
Item No. N° de l'article	NATO Stock No. / Item Description N° de nomenclature de l'OTAN / Description de l'article			U. of I. U. de d.	Quantity Quantité	Unit Price Prix unitaire (\$)	Extended Price Prix calculé (\$)
1	Herring air charters as and when required			sum	1.00	5000.00	5,000.00

Special Instructions - Instructions particulières

Send Invoices to Melody.haaland@dfo-mpo.gc.ca

Total 5,000.00

For further information, call - Pour renseignements supplémentaires, contacter

Delivery required by - Livraison requise le
(YYYY-MM-DD) (AAAA-MM-JJ)Name - Nom
Jaclyn Cleary

Telephone No. - N° de téléphone

For internal purposes only - Pour usage interne seulement

Approved for the Minister - Approuvé pour le Ministre

Pursuant to subsection 32(1) of the Financial Administration Act, funds are available.
En vertu du paragraphe 32(1) de la Loi sur la gestion des finances publiques, des fonds sont disponibles.

Signature (Mandatory - Obligatoire)

Date (YYYY-MM-DD - AAAA-MM-JJ)

Signature (Mandatory - Obligatoire)

Date (YYYY-MM-DD - AAAA-MM-JJ)

Canada

PWGSC-TPSGC 942 (01/2014)

Requisition No. - N° de demande			Client Reference No. (optional) N° de référence du client (facultatif)
Order. Off. Bur. dem.	YY - AA	Serial No. - N° de série	
F1582	19	1	

Page
of. de

Item No. N° de l'article	NATO Stock No. / Item Description N° de nomenclature de l'OTAN / Description de l'article	U. of I. U. de d.	Quantity Quantité	Unit Price Prix unitaire (\$)	Extended Price Prix calculé (\$)

Mattu, Janice

From: Knox, Julie
Sent: March-28-19 3:47 PM
To: Mattu, Janice
Subject: FW: F1582-190001, F1582-190002 Signed Call-Ups
Attachments: F1582-190001, F1582-190002 Signed Call-Ups.pdf

For your files

Thanks,
Julie Knox - Admin Officer
Julie.Knox@dfo-mpo.gc.ca / Tel: 250-756-7288

From: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>
Sent: March-28-19 3:38 PM
To: Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>
Cc: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Subject: F1582-190001, F1582-190002 Signed Call-Ups

Hi Julie, please see the attached Call-ups. Robyn was just by so I got her to sign them. tx

Regards,

Melody Haaland

Administrative Assistant, Science Branch / Pacific Region - Stock Assessment & Research Division (StAR)
Fisheries and Oceans Canada / Government of Canada
melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071



Public Works and Government
Services Canada

Travaux publics et Services
gouvernementaux Canada

Call-up Against a Standing Offer

Commande subséquente à une offre à commandes

Ship to - Expédier à

Fisheries and Oceans Canada
3225 Stephenson Point Road
Nanaimo BC

F1582

V9T 1K3

Supplier - Fournisseur

Seair Seaplanes
(Seair Services 1990 Inc.)
4640 Inglis Drive
Richmond BC

To the supplier: The standing offer identified below is accepted as follows: You are required to supply the goods or services, or both, shown below at the prices or on the pricing basis stated and in accordance with the other conditions stated in the standing offer. Only goods or services, or both, included in the standing offer will be supplied in the call-up against the standing offer.

Au fournisseur: L'offre à commandes indiquée ci-dessous est acceptée selon les modalités suivantes : Vous devez fournir les biens ou les services, ou les deux, indiqués ci-dessous selon les prix ou la base de tarification établie, et conformément avec les autres conditions stipulées dans l'offre à commandes. Seuls les biens ou les services, ou les deux, inclus dans l'offre à commandes seront fournis dans la commande subséquente à l'offre à commandes.

Security: The call-up includes security provisions.

Sécurité : La demande comprend des exigences en matière de sécurité.



NO
NON



YES
OUI

If YES, attach a SRCL to the call-up
Si OUI, joindre une LVERS à la demande

Invoices must be sent in accordance with - Les factures doivent être envoyées selon :



The detailed instructions in the standing offer
Les instructions détaillées dans l'offre à commandes



The address shown in the "Ship to" block
L'adresse indiquée dans la case « Expédier à »



Special instructions below
Les instructions particulières ci-dessous

Each shipment must be accompanied by a packing or delivery slip. All invoices, bills of lading and packing slips must show the following reference numbers.

Chaque expédition doit être accompagnée d'un bordereau d'emballage ou de livraison. Les factures, connaissements et bordereaux d'emballage doivent tous porter les numéros de référence suivants.

Financial Code(s) - Code financier(s)
51880-810-120-0526-52101

Standing Offer No. - N° de l'offre à commandes

E60SQ-020001/152/SQ

Requisition No. - N° de demande

Order. Off. - Bur. dem. YY-AA

F1582

Serial No. - N° de série

19

Client Reference No. (optional)

0001

N° de référence du client (facultatif)

The representative of the Identified User signing the call-up form must indicate his or her physical address. This address will constitute the address most connected with the supply and will determine, where applicable, the place of supply for this procurement.
Le représentant de l'utilisateur désigné qui signe le formulaire de commande subséquente doit indiquer son adresse municipale, qui constituera l'adresse la plus associée à l'approvisionnement et qui déterminera, le cas échéant, le lieu d'approvisionnement pour cette commande.

Amendment No. N° de modification		Previous Value (\$) Valeur précédente (\$)		Value of increase or decrease (\$) Valeur de l'augmentation ou diminution (\$)		Total estimated expenditures or revised Total des dépenses estimatives ou révisées	
				5,000.00		5,000.00	
Item No. N° de l'article	NATO Stock No. / Item Description N° de nomenclature de l'OTAN / Description de l'article			U. of I. U. de d.	Quantity Quantité	Unit Price Prix unitaire (\$)	Extended Price Prix calculé (\$)
1	Herring air charters as and when required			sum	1.00	5000.00	5,000.00

Special Instructions - Instructions particulières

Total 5,000.00

Send Invoices to Melody.haaland@dfo-mpo.gc.ca

For further information, call - Pour renseignements supplémentaires, contacter

Delivery required by - Livraison requise le
(YYYY-MM-DD) (AAAA-MM-JJ)

Name - Nom
Jaclyn Cleary

Telephone No. - N° de téléphone

For internal purposes only - Pour usage interne seulement

Approved for the Minister - Approuvé pour le Ministre

Pursuant to subsection 32(1) of the Financial Administration Act, funds are available
En vertu du paragraphe 32(1) de la Loi sur la gestion des finances publiques, des
fonds sont disponibles.

MAR 28 2019

[Signature]

MAR 28 2019

Signature (Mandatory - Obligatoire)

Date (YYYY-MM-DD - AAAA-MM-JJ)

Signature (Mandatory - Obligatoire)

Date (YYYY-MM-DD - AAAA-MM-JJ)

Canada

PWGSC-TPSGC 942 (01/2014)

Requisition No. - N° de demande			Client Reference No. (optional) N° de référence du client (facultatif)		Page
Order. Off. Bur. dem.	YY - AA	Serial No. - N° de série			of de
F1582	19	1			

Item No. N° de l'article	NATO Stock No. / Item Description N° de nomenclature de l'OTAN / Description de l'article	U. of I. U. de d.	Quantity Quantité	Unit Price Prix unitaire (\$)	Extended Price Prix calculé (\$)

Mattu, Janice

From: Christy Clarke <christy@seairseaplanes.com>
Sent: April-01-19 8:34 AM
To: Haaland, Melody; Mattu, Janice; Rusch, Bryan; Palfrey, Terrence; Neuman, Amber
Cc: Thompson, Matthew; Pearce, Stewart; Peter Clarke
Subject: RE: Seair / DFO Spawn Flight Meeting Summary
Attachments: Fisheres PO.pdf

Christy Clarke | Administration
Seair Seaplanes Ltd.

From: Peter Clarke
Sent: Monday, April 01, 2019 8:24 AM
To: Christy Clarke <christy@seairseaplanes.com>
Subject: FW: Seair / DFO Spawn Flight Meeting Summary

Hi Amber,

Please find attached the signed Purchase Order as requested.

Kind regards,



Peter Clarke | President
Seair Seaplanes
4640 Inglis Drive, Richmond, B.C.
Canada V7B 1W4
seairseaplanes.com
peter@seairseaplanes.com
toll free 1.800.447.3247
direct line 604.279.2409
cell 604.328.6700

From: Neuman, Amber [<mailto:Amber.Neuman@dfo-mpo.gc.ca>]
Sent: Monday, April 01, 2019 8:06 AM
To: Peter Clarke <peter@seairseaplanes.com>; Terry Hiebert <terry@seairseaplanes.com>; Christy Clarke <christy@seairseaplanes.com>
Cc: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>; Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>; Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Palfrey, Terrence <Terrence.Palfrey@dfo-mpo.gc.ca>; Thompson, Matthew

<Matthew.Thompson@dfo-mpo.gc.ca>; Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>

Subject: RE: Seair / DFO Spawn Flight Meeting Summary

Good morning,

I just wanted to give you a heads-up that we are now in a new fiscal year so we have a new call-up against the Seair standing offer and Purchase Order for spawn flights starting this morning. I will bring this Purchase Order with me for signature this morning for our planned spawn flight from Nanaimo. However, if Peter or designate are not available at the Nanaimo terminal this morning, please sign the attached, scan and return to myself and Melody Haaland as soon as possible.

Please note, all invoices are to be sent to Melody Haaland and cc' Stewart Pearce and myself (emails as above), include the contract number from the attached purchase order on the invoice for ease of tracking.

Please let me know if you have any further questions or need anything else.

Sincerely,

Amber Neuman

Resource Manager – Herring

South Coast Area, Resource Management Branch, Pacific Region

Fisheries and Oceans Canada | Government of Canada

Amber.Neuman@dfo-mpo.gc.ca | Tel: (250) 756-7246 | Cell: (250) [REDACTED]

s.16(2)(c)

Gestionnaire des Pêches - Hareng

Secteur de la Côte Sud, Gestion des ressources, Région Pacifique

Pêches et Océans Canada | Gouvernement du Canada

Amber.Neuman@dfo-mpo.gc.ca | Tél : (250) 756-7246 | Tél cell. : (250) [REDACTED]



PURCHASE ORDER
(Continuation sheet)

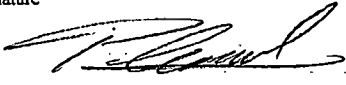
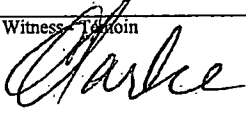
COMMANDE D'ACHAT
(suite)

P.O. No. - N° de commande
F1582-190001
Amend. No. - N° de modif.
0

The following documents form part of this Purchase Order. The supplier recognizes and agrees to all terms and conditions set out in this request, including:

Les documents ci-joints font partie intégrale de cette commande d'achat. Le Fournisseur convient et accepte tous les termes et conditions tels que décrits dans cette demande, incluant:

Continued/ suite...

FOR THE SUPPLIER - POUR LE FOURNISSEUR		
Signature 	Witness - Témoin 	Date April 1, 2019
Print or type - Imprimer ou dactylographier Peter Clarke / President	Position title - Titre du poste Admin	
Signature	Witness - Témoin	Date
Print or type - Imprimer ou dactylographier	Position title - Titre du poste	
APPROVED FOR THE MINISTER - APPROUVÉ POUR LE MINISTRE		
Signature	Position title - Titre du poste	Date
Print or type - Imprimer ou dactylographier		

Mattu, Janice

From: Pearce, Stewart
Sent: April-01-19 10:48 AM
To: Mattu, Janice; Knox, Julie
Cc: Thompson, Matthew; Rusch, Bryan; Neuman, Amber
Subject: PO Mixup
Attachments: Invoice_Seair_Mar21.pdf

Hi Janice,

Apparently the spawn flight on March 21 was invoiced toward the RM funding PO (F1582-180028) when it should have been invoiced toward the treaty funding PO (F1582-180034). I have requested that Seair amend the invoice, just wondering whether it is too late to do so (i.e. has the payment already been processed and/or can anything be altered past the March 31 deadline)?

My apologies for not catching this sooner. Please let me know if this can be corrected.

Stew

Stewart Pearce
Salmon Stock Assessment Technician
South Coast Area, Fisheries and Oceans Canada
3225 Stephenson Point Road, Nanaimo, BC, V9T 1K3
Office: 250.756.7227
Cell: 250. [REDACTED]
E-mail: stewart.pearce@dfo-mpo.gc.ca

s.16(2)(c)



Contract No.:
F1582-180028

SEAIR SEAPLANES LTD. 4640 INGLIS DRIVE, RICHMOND, B.C. V7B 1W4

TEL: (604) 273-8900 FAX: (604) 273-7351

CHARTERED TO:	FISHERRIES and OCEANS COMPANY
ADDRESS:	3225 STEATSON PT, ROAD, NANAIMO BC V9T 1K3

CASH ☐
CHEQUE ☐
ACCOUNT ☒
CREDIT CARD ☐

PILOT: TERRY A/C TYPE: Cessna 185 A/C REG: C641X DATE: Mar 21, 2019

FROM	NO OF PASSENGERS	WAIT	HOURS	MILES	MILEAGE	RATE	\$
Vancouver, to Departure Bay	2						
TO Nanoose, Northwest Bay	2				FLIGHT HOURS 1.7	999.00	1,698 30
TO French Creek, Deep Bay, Chrome	2				WAITING HOURS		
TO Island, Baynes Sm., Goose Spit,	2						
TO Cape Lazo, Seal Bay, Nitty Coleman	2						
TO Cape Lazo, Tree Island,	2						
TO Komos Bluff, Lambert Channel	2						
TO Hornby Island, Bowser	2						
TO Parksville, Nutall Bay, Schooner	2						
TO Cove, Pipers Lagoon	2				5% GST (#104759725RT0001)		84 92
TO Departure Bay	2				TOTAL CHARGE:		1,783 22
TO HOLD TIME: 09:36-11:17=1.7							

LOAD CONTROL

EMPTY OP. WT.	22.84			
PASS. WEIGHT	197			
BAGGAGE/FRT.				
FUEL	42.0			
GROSS T/O WT.	290.1			
W+B INDEX	14.1			

I hereby certify that the aircraft is loaded within the prescribed weight and centre of gravity limits as laid out in the aircraft weight and balance.

PILOT'S SIGNATURE

PASSENGER MANIFEST

THE UNDERSIGNED HEREBY ACCEPT THE LIMITATION OF LIABILITY CONDITIONS OF CARRIAGE AS SHOWN ON THE REVERSE SIDE OF THIS TICKET

NAME (PLEASE PRINT)	SIGNATURE
1. Stewart Pearce	
2. Matt Thompson	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	
11.	
12.	
13.	
14.	

"I/WE HEREBY ACCEPT THE LIMITATION OF LIABILITY CONDITIONS OF CARRIAGE AS SHOWN ON THE REVERSE SIDE OF THIS TICKET, PERSONALLY AND ON BEHALF OF ALL OTHER PASSENGERS WHO FAIL TO ACCEPT SUCH CONDITIONS."

AUTHORIZING SIGNATURE

No 31546

TERMS: 15 days, 2% per month charged on overdue accounts

Mattu, Janice

From: Haaland, Melody
Sent: April-01-19 11:00 AM
To: Neuman, Amber; Peter Clarke; Terry Hiebert; christy@seairseaplanes.com
Cc: Mattu, Janice; Rusch, Bryan; Palfrey, Terrence; Thompson, Matthew; Pearce, Stewart
Subject: RE: Seair / DFO Spawn Flight Meeting Summary
Attachments: F1582-190001 Seair SIGNED Purchase Order.pdf

Fully executed Purchase Order signed by John Holmes and Vendor attached.

Regards,

Melody Haaland

Administrative Assistant, Science Branch / Pacific Region - Stock Assessment & Research Division (StAR)
Fisheries and Oceans Canada / Government of Canada
melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071

From: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Sent: April-01-19 8:06 AM
To: Peter Clarke <peter@seairseaplanes.com>; Terry Hiebert <terry@seairseaplanes.com>; christy@seairseaplanes.com
Cc: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>; Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>; Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Palfrey, Terrence <Terrence.Palfrey@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>; Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>
Subject: RE: Seair / DFO Spawn Flight Meeting Summary

Good morning,

I just wanted to give you a heads-up that we are now in a new fiscal year so we have a new call-up against the Seair standing offer and Purchase Order for spawn flights starting this morning. I will bring this Purchase Order with me for signature this morning for our planned spawn flight from Nanaimo. However, if Peter or designate are not available at the Nanaimo terminal this morning, please sign the attached, scan and return to myself and Melody Haaland as soon as possible.

Please note, all invoices are to be sent to Melody Haaland and cc' Stewart Pearce and myself (emails as above), include the contract number from the attached purchase order on the invoice for ease of tracking.

Please let me know if you have any further questions or need anything else.

Sincerely,

Amber Neuman

Resource Manager – Herring

South Coast Area, Resource Management Branch, Pacific Region

Fisheries and Oceans Canada | Government of Canada

Amber.Neuman@dfo-mpo.gc.ca | Tel: (250) 756-7246 | Cell: (250) [REDACTED]


s.16(2)(c)

Gestionnaire des Pêches - Hareng

Secteur de la Côte Sud, Gestion des ressources, Région Pacifique

s.16(2)(c)

Pêches et Océans Canada | Gouvernement du Canada

Amber.Neuman@dfo-mpo.gc.ca | Tél : (250) 756-7246 | Tél cell. : (250) 



Fisheries and Oceans
Canada

Pêches et Océans
Canada

PURCHASE ORDER

This Purchase Order is made as of the contract award date below between Her Majesty the Queen in Right of Canada (hereinafter referred to as "Her Majesty") represented by the Minister of Fisheries and Oceans (hereinafter referred to as "Fisheries and Oceans Canada") and the supplier (as named herein).

SUPPLIER – FOURNISSEUR

SEAIR SERVICES 1990 LTD.
4640 INGLIS DRIVE
RICHMOND, BC V7B 1W4
Canada

ISSUED BY - PRÉPARÉ PAR

FISHERIES MGMT-SOUTH COAST
3225 STEPHENSON POINT ROAD
NANAIMO, BC V9T 1K3

Tel: 2507567257
E-mail: JANICE.MATTU@DFO-MPO.GC.CA

COMMANDE D'ACHAT

Cette commande d'achat est faite en date d'octroi de contrat ci-dessous entre Sa Majesté la Reine du chef du Canada (ci-après appelée "Sa Majesté") représenté par le Ministre des Pêches et Océans Canada (ci-après appelé "Pêches et Océans Canada") et le Fournisseur (tel qu'indiqué dans les présentes).

IMPORTANT

The Contract No. must appear on invoices, B/L, packing lists, correspondence and outside containers.
Le No. de contrat doit être indiqué sur les factures, les connaissements, les listes d'emballage, la correspondance et à l'extérieur des contenants.

Contract No./ No. de contrat. **F1582-190001**

Amend. No./No. de modif **0**

Contract Award Date/
Date d'octroi de contrat **28-MAR-2019**

Address Enquiries to - Adresser toute demande à

Tel:
E-mail:

This purchase document references Standing Offer Agreement Number /

Ce document d'achat fait référence à un numéro d'entente d'offre à commandes **E60SQ-020001/152/SQ**

SHIP TO/
EXPÉDIER À: **F1582**

BILL TO/
FACTURER À: **DFO.invoicing-facturation.MPO@canada.ca**

FISHERIES MGMT-SOUTH COAST
3225 STEPHENSON POINT ROAD
NANAIMO, BC V9T 1K3
Canada

DFO-ACCOUNTS PAYABLE/MPO-COMPTES PAYABLE
PO BOX 1901, STN A / CP 1901, STN A
FREDERICTON, NB E3B 5G4
Canada

Attn: **MATTU, JANICE**

Departmental Financial Codes - Codes financiers ministériel

51880-810-120-0526-52101-6

Freight Terms - Conditions pour les frais de transport

Contract End Date - Date de fin du contrat

FOB – FAR

PST No. - N° de TVP Exemption

HST/GST - TPS /
TVH

EXTRA

Estimated Total Cost - Prix total prévu

5,000.00 CAD
(Tax excluded)/(Taxe exclus)

Continued/ suite...

Canada



Fisheries and Oceans
Canada

Pêches et Océans
Canada

Page

2	of/de	3
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PURCHASE ORDER
(Continuation sheet)

COMMANDE D'ACHAT
(suite)

P.O. No. - N° de commande F1582-190001
Amend. No. - N° de modif. 0

The Vendor agrees to provide to Fisheries and Oceans Canada the goods or services identified at the specified prices and in accordance with all terms and conditions of this Purchase order.

Le Fournisseur accepte de fournir Pêches et Océans Canada les biens ou services identifiés dans les présentes en conformité avec les prix spécifiés et avec les modalités de cette commande d'achat.

Continued/ suite...

Item no. No Article	Description Description	Delivery Date Date de livraison	Quantity Quantité	U of 1 U de D	Unit Price Prix unitaire	Extended Cost Prix total prévu
1	Herring air charters as and when required	31-MAR-20	1	SUM-LUMP SUM/FORFA ITAIRE	5,000.00	5,000.00

Canada



Fisheries and Oceans
Canada

Pêches et Océans
Canada

Page

3	of/de	3
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PURCHASE ORDER
(Continuation sheet)

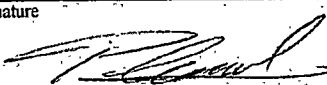
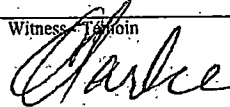
COMMANDE D'ACHAT
(suite)

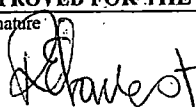
P.O. No. - N° de commande	F1582-190001
Amend. No. - N° de modif.	0

The following documents form part of this Purchase Order. The supplier recognizes and agrees to all terms and conditions set out in this request, including:

Les documents ci-joints font partie intégrale de cette commande d'achat. Le Fournisseur convient et accepte tous les termes et conditions tels que décrits dans cette demande, incluant:

Continued/ suite...

FOR THE SUPPLIER - POUR LE FOURNISSEUR		
Signature 	Witness - Témoin 	Date April 1, 2019
Print or type - Imprimer ou dactylographier Peter Clarke / President	Position title - Titre du poste Admin	
Signature	Witness - Témoin	Date
Print or type - Imprimer ou dactylographier	Position title - Titre du poste	

APPROVED FOR THE MINISTER - APPROUVÉ POUR LE MINISTRE		
Signature 	Position title - Titre du poste Asst. Sec. in Charge QAM	Date Apr 11 2019
Print or type - Imprimer ou dactylographier Polyn Forest		

Canada

Mattu, Janice

From: accounts@corilair.com
Sent: April-02-19 2:10 PM
To: Mattu, Janice
Subject: Statement from Corilair Charters Limited
Attachments: statement.pdf

If you are unable to view the attached statement, please contact us immediately.

**Box 1451
Campbell River, British Columbia V9W 5C5
Canada**

Statement Date

04/02/2019

Statement Date

04/02/2019

JANICE MATTU
3225 STEPHENSON POINT RD.
christine.bukta@dfo-mpo.gc.ca
NANAIMO, BC V9T 1K3
CANADA

IF PAYING BY INVOICE, CHECK
INDIVIDUAL INVOICES PAID

AMOUNT REMITTED _____

[illegible]

SCA Herring salary expenses 2018/19-estimate		
Expense Description	Expense Cost	Estimate hours at straight time
Bryan Rusch Herring OT		255
Terry Palfrey Herring OT		252.5
Mike Spence Herring OT		67.6
Stew Pearce Herring OT		46
Stew Pearce Herring salary		
Ryan O'Connell OT		
OVERTIME TOTAL	\$31,700	

Mattu, Janice

Subject: SCA Herring Post-Season Meeting
Location: DFO CONF Nanaimo-3225StephensonPointRd-1-Whitmore CONF MPO
Start: Tue 23/04/2019 12:30 PM
End: Tue 23/04/2019 4:00 PM
Show Time As: Tentative
Recurrence: (none)
Meeting Status: Not yet responded
Organizer: Neuman, Amber
Required Attendees: Rusch, Bryan; Palfrey, Terrence; O'Connell, Ryan; Spence, Michael; Spence, Brenda; Postlethwaite, Victoria; Cleary, Jaclyn; Thompson, Matthew; Daniel, Kristen; Bromley, Monte; Mattu, Janice; Hornby, Greg; Bukta, Christine; Watkins, Erika; Ganton, Amy; Kelly, Gerry; Spencer, Kent; Saraga, Rachel K; Joe, Jonathan; Conley, Kevin; Preston, Paul; Stewart Pearce (Stewart.Pearce@dfo-mpo.gc.ca)

Draft agenda attached. Please review and prepare any agenda items where you have been identified as lead. We have a lot of material to cover so I have expanded the meeting to start at 12:30 and end by 4:00 at the latest. Hopefully we can move through the agenda more quickly and wrap-up by 3:30. If you have anything specific that you would like to add to the agenda, please let me know.

Cheers,
Amber

s.16(2)(c)

AGENDA

South Coast Herring Post-Season Meeting

Tuesday, April 23, 2019 12:30-4:00pm
DFO South Coast | Whitmore Building Boardroom
Call-In: 1-877-413-4790 (#.) if required

Meeting Objectives:

- Internal Review of 2018/2019 SCA herring season.
- Identify and discuss key management/science issues to discuss at HWG post-season meetings

Time	Item (Objective)	Lead
12:30-12:40	Welcome, introductions, review of agenda and objectives	Amber Neuman
12:40-1:00	Review WCVI Roe Herring (5 min each)	
	Review of Test Program, flights, FN Charters (Logistics, cost, effectiveness, recommendations for next year)	Mike Spence / Ryan O'Connell
	Stock and spawn summary	
	First Nations Summary	
	Spawn / Stock Summary	Science (Matt / Kristen)
	Area 27 – SOK and season review	
	Area specific items for post-season meetings	
1:00-1:45	Review SOG Roe Herring (5 min each)	
	Review of Test program / Management Platform (Logistics, cost, effectiveness, recommendations for next year)	Bryan Rusch
	Review of Flight Program (Logistics, cost, effectiveness, recommendations for next year)	Stewart Pearce
	Seine Fishery Review (Summary document review and discussion, issues, recommendations for next year)	Amber/Bryan
	Gillnet Fishery Review (Summary document review and discussion, issues, recommendations for next year)	Terry Palfrey
	Spawn / Stock Summary	Science (Matt / Kristen)
	First Nations Summary (Summary document review and discussion, issues, recommendations for next year)	Amber
	ASO Pilot Phase 2 - 2020	Amber /Bryan
	On-grounds Management 2020	Amber / Bryan
	Area specific items for post-season meetings	
1:45-2:00	Review SOG Food & Bait	Amber
	Fishery Review (Summary document review and discussion, issues, recommendations for next year)	
	Area specific items for post-season meetings	
2:00-2:15	Review SU Herring	Victoria
	Fishery Review (Summary document review and discussion, issues, recommendations for next year)	
	Area specific items for post-season meetings	
2:15-2:30	Health Break	

2:30-2:45	Review of Licensing (Summary of season, review processes, timelines, issues)	Amber
	Area specific items for post-season meetings	
2:45-3:30	Other Area Specific Issues for Review	Amber / Bryan
	Conditions of Licence – F&B, Roe, Packing	
	Public Opposition to Roe Fishery	
	Baynes Sound Knowledge Exchange	
	Shellfish Sanitary Contamination/Closure Mitigation Measures	
	Sea Lions	
	Commercial closures around FSC bough placements	
3:30-3:45	Wrap-Up	All
	Action Items Review	
	Identified Future Work	
	Review Upcoming Meetings / Attendance <i>Apr 26 – Licensing post-season review - Vancouver</i> <i>Apr 26 – C&P post-season review - Vancouver</i> <i>Apr 26 – JOT post-season review - Vancouver</i> <i>TBA -Herring charter program post season review (Vancouver)</i> <i>Apr 29 and 30 -Herring Working Group</i> <i>May 1 - IHHPC</i> <i>May 2 – HIAB</i> <i>May 9 – SOG FN Post-Season Meeting</i> <i>May-June Tentative – QARS/A-Tlegay MSE Workshops</i> <i>June –July Tentative – Islands Trust/Denman Island Residents</i> <i>TBD – DFO Herring Industry MSE update</i> <i>TBD – Science Advice</i> <i>End of August-September – HWG review</i>	
4:00	Meeting Adjourned	

Neuman, Amber

From: Spence, Brenda
Sent: 2018-June-19 2:20 PM
To: Neuman, Amber; Postlethwaite, Victoria; Rusch, Bryan; Goruk, Andrea
Subject: FW: Request for Requirements - Fleet Operations Plan FY 2018-19
Attachments: Appendix A - Vessel Support Request Form 2019_FM Herring Neocaligus_Strait of Georgia.docx

Follow Up Flag: Follow up
Flag Status: Completed

FYI, the vessel request did not go in to CCGC last year for the 2019 season, they are looking for other options for us as the Neo is booked. We could also still choose the Canadian Shore under the two year contract if needed.

From: Mohr, Alan
Sent: June-19-18 11:02 AM
To: Spence, Brenda
Cc: Thirkell, Darcene
Subject: FW: Request for Requirements - Fleet Operations Plan FY 2018-19

Morning Brenda,

Following up from our last discussion and, unfortunately, it appears that a request was not received and in addition, Science has fully utilized the Neocaligus this year.

I am working on alternatives for you and will let you know soon.

Alan Mohr
Fleet Delivery Planning Officer,
Canadian Coast Guard – Western Region
25 Huron St, Victoria, BC V8V 4V9
Tel: 250-413-2818
Alan.Mohr@dfo-mpo.gc.ca

Good afternoon Darcene,

I am just following on this email from last year regarding the scheduling of the Neocaligus for the roe herring fishery vessel support. Could you please confirm that the request was submitted and the program is in the schedule for February/March 2019?

Thanks in advance,

Brenda Spence
A/Regional Manager, Pelagics
Fisheries and Oceans Canada / Pacific Region Brenda.Spence@dfo-mpo.gc.ca / Tel: 250-616-0702 Gestionnaire des ressources, poissons pélagiques Pêches et Océans Canada / Région du Pacifique Brenda.Spence@dfo-mpo.gc.ca / Tél. : 250-616-0702

-----Original Message-----

From: Jackson, Corey

Sent: August-09-17 11:03 AM

To: Hollands, Ryan

Cc: Spence, Brenda; Davis, Neil; Brown, Laura (Pacific); Goruk, Andrea; OHara, Brenda

Subject: RE: Request for Requirements - Fleet Operations Plan FY 2018-19

Hi Ryan

Good timing as I was just working with Brenda Spence (South Coast lead) on this request. We are not planning to use a CCG vessel for the 2018 herring season (2017/18 FY). The Neocaligus is unavailable for the dates we require and we are pursuing an industry charter vessel instead. However, we would like to submit a request for the Neocaligus (or a similar vessel) again in 2018/19 (for the 2019 fishing season), which would align with this call-out.

Attached is the vessel request form 2018/19. I can't recall what approvals process we have used in the past. Are you going to coordinate Andy's review/approval and submission of our requests to Alan Mohr at CCG, or should I work with Rina to get Andy's approval on this and send to Alan? Let me know what you think is the best approach and we'll go from there.

Also, just a heads-up, we will still need ~\$50-\$75k that would have been allocated to the Neocaligus to secure an industry charter. Brenda and I are working on the costing and it will depend on a few factors (e.g. the vessel we can secure, their daily rate, the length of the fishery, etc.); however, just want to flag it with you, Brenda O'Hara and Andy so we keep it on the radar for the 2017/18 budget.

Thanks,
Corey

Corey Jackson

A/ Regional Manager, Pelagics

Fisheries and Oceans Canada / Pacific Region Corey.Jackson@dfo-mpo.gc.ca / Tel: 604-666-3637 Gestionnaire des ressources, poissons pélagiques Pêches et Océans Canada / Région du Pacifique Corey.Jackson@dfo-mpo.gc.ca / Tél. : 604-666-3637

-----Original Message-----

From: Hollands, Ryan

Sent: August-09-17 10:24 AM

To: Jackson, Corey

Subject: FW: Request for Requirements - Fleet Operations Plan FY 2018-19

Hi Corey,

Can you let me know RM requirements for CCG vessel and helicopter? Last year the quote for 28 days of use was \$77,626.24. Please note the due date is September 08, 2017.

Thanks,

Ryan Hollands
A/FM, Business Manager
Fisheries and Oceans Canada - Pacific Region / Pêches et Océans Canada - Région du Pacifique
200-401 Burrard Street / 401, rue Burrard, bureau 200 Vancouver, BC/CB V6C 3S4 Office / Téléphone: 604-666-0182

-----Original Message-----

From: Barton, Janice
Sent: August-03-17 5:00 PM
To: Hollands, Ryan
Cc: Or, Joyce; OHara, Brenda
Subject: FW: Request for Requirements - Fleet Operations Plan FY 2018-19

From: Thirkell, Darcene
Sent: August 3, 2017 3:55 PM
To: Lawson, Jesse; Murdock, Philip; Evans, Clay; Hoffman, Clint; Watkinson, Stephen; James, Steve; Roberts, Gwil; Schlagintweit, George; Lowe, Carmel; Romaine, Stephen; Brown, Laura (Pacific); Rutherford, Dennis; Fong, Ken; Saunders, Mark; Antcliffe, Bonnie; Prince, Dave; Smith, Ken; Kotyk, Mel; Ross, Andrew; Hannah, Charles; Melling, Humfrey; Thomson, Andrew; Nener, Jennifer; Lewis, Andy; Hlavac, Thomas; Tompkins, Robert; Gray, Trevor; McDonald, Steve; Davies, Sandra; Gagne, Janet; Magera, Anna; Moore, Wayne; 'Peter.Wakeland@ic.gc.ca'; 'Rick.Lawrence@ic.gc.ca'; 'Adrienne.Jones@NRCan-RNCan.gc.ca'; 'Andre.Youssef@inspection.gc.ca'; 'Ryan.Harris@pc.gc.ca'; 'James.McEachern@cbsa-asfc.gc.ca'; 'jay.fulks@rcmp-grc.gc.ca'; Spence, Brenda; Groves, Steven; Doucette, Claire; Barton, Janice; 'pat.wong@ec.gc.ca'; 'denis.erdely@ec.gc.ca'; 'lorne.baker@ec.gc.ca'; 'ben.lemon@ec.gc.ca'; 'bruce.lohnes@ec.gc.ca'; 'bryan.phenix@canada.ca'; 'Sean.Standing@ec.gc.ca'; 'Kristie.Trainor@ec.gc.ca'; 'Mark.Hipfner@ec.gc.ca'; Ian.Parnell@ec.gc.ca; 'owen.hargrove@ec.gc.ca'; adam.larusic@canada.ca; ec.immersionenmerrpy-disposalatseapyr.ec@canada.ca; Mike.Fenton@forces.gc.ca; DARIN.WIEBE@forces.gc.ca; Richard.Kappel@forces.gc.ca; Jeff.Chura@forces.gc.ca; Landon.Creasy@forces.gc.ca; Lucas.Kenward@forces.gc.ca; 'kenneth.murphy@forces.gc.ca'; 'michael.waters@forces.gc.ca'; RAPHAEL.CAESAR@forces.gc.ca; Richard Pawlowicz; Crowe, Sean; Davidson, A.D. Ashley; Jon Alberts - UNOLS Office; office@mail.unols.org; 'Eric Benway'; McCann, Timothy; Eert, Jane; Adrian Round; Evans, Glenna
Cc: McNish, Joanne; Western ROC Superintendent \ Surintendant ROC Ouest (DFO/MPO); ROC Planning Officer / agent de planification COR (DFO/MPO); Jersch, Russell; Collins, Peter; Llewellyn, Don; Byatt, Cyndi; Delisle, Marc; Hains, Eric; Hunt, Cliff; St-Pierre, Lisa; Granger, Louise Anne; Wootton, Brian; Bain, Brian; Readman, Tristan; Aviation / ROC (DFO/MPO)
Subject: Request for Requirements - Fleet Operations Plan FY 2018-19

Good Day,

On behalf of Joanne McNish, Regional Director Fleet, Canadian Coast Guard, please find attached call letter for requests for ship and helicopter time and supporting documentation regarding the request for Fleet requirements for FY 2018-2019.

Note that the deadline for submission of vessel AND helicopter requirements is September 8, 2017.

Please forward this message and distribute as you deem appropriate to your associates and colleagues.

If you have any questions regarding this process, please do not hesitate to contact me.

Regards,

Darcene Thirkell

Superintendent, Operational Business

Surintendant Exploitation opérationnelle Fleet, Canadian Coast Guard Flotte, Garde côtière canadienne Western Region
/ Région de l'Ouest

(250) 480-2730

Call Letter: Request for Requirements for Fiscal Year 2018-19 FOP FY18-19 Schedule Appendix A – Vessel Support
Request Form Appendix B – Helicopter Support Request Form Appendix C – Western Region Fleet Inventory Appendix D
– Draft Ships Plan Appendix E – Fisheries Patrol Vessel Time Request Guide Appendix F – Request for US Clearance
Appendix G – Timeline for Development of FOP

Canadian Coast Guard

Vessel Support Request

Contact Information

Requested by:	Corey Jackson, Regional Manager, Pelagics
Telephone:	604-666-3637
Email:	Corey.Jackson@dfo-mpo.gc.ca

Department / Directorate / Program:	DFO, Fisheries Management (RHQ)
Project Coding or MOU Reference:	

Request Details

Date(s) Requested: (include alternate dates if possible)	February 26, 2018 to March 20 th , 2019
Area(s) of Operation:	Areas 14 to 18.
Description of Program Requirements:	Main purpose of the trip will be to provide platform for the management of the commercial herring seine fishery in the Strait of Georgia area. The vessel will also be used to assist with herring stock assessment to support commercial and FSC fisheries for herring in Areas 14 to 18. The vessel will be a communication hub for DFO management and stakeholders for the commercial herring fisheries. Extended hours and night time operations will be required.
Description of Equipment and/or Cargo Requirements: Including deck/hold/laboratory space, lifting capability, electrical/hydraulic, deck machinery, laboratory space, refrigeration, etc.	It is anticipated that two Fishery Managers will be on board. A third DFO staff member may be on board overnight at times. The vessel may also be directed by DFO program managers shore side if DFO on grounds staff are not available or not on board the vessel. <ol style="list-style-type: none"> 1. No fishing or sampling will be conducted on board or by the vessel. 2. 50khz and 200khz sounders or split beam sounder are preferred for herring assessment. 3. Sonar to assist in location and assessment of herring schools. 4. Work area for the managers in the wheelhouse with access to marine VHF channel 78A and

Appendix A

	<p>DFO 3C will be required.</p> <ol style="list-style-type: none">5. Work area must accommodate the setup and continuous use of one workstation with a seat and accommodate a laptop computer and mobile printer. A second seat in the wheelhouse is required for management staff to use if needed.6. Internet connection for email within the DFO network.7. Herring bucket sample storage freezer space may be required. <p>Vessel may be utilized for meetings with commercial industry reps and/or First Nations representatives. Expected that discussions would occur on aft deck and would not require access to inside of the vessel.</p>
Vessel Requested: (if known)	<ul style="list-style-type: none">• CCGS Neocaligus
Number of Supernumeraries:	2/3
Additional Information:	Extended hours of work can be expected, as assessment and fishing activity occurs between 0500 and 2300 hours each day. Variable meal time provisions may be required around DFO manager staff operational requirements. Anchoring out of the vessel may be required near fishing locations in favourable weather (may not secured to a dock each night) .

Submit completed form to:

Alan Mohr – A/Fleet Delivery Planning Officer, Operational Business

By email: Alan.Mohr@dfo-mpo.gc.ca

By fax: 250-413-2818

Neuman, Amber

From: Postlethwaite, Victoria
Sent: 2018-September-19 2:38 PM
To: Beisel, Mark; Bromley, Monte; Bukta, Christine; Chow, Darren; Cleary, Jaclyn; Daniel, Kristen; Ganton, Amy; Gordon, Jennifer; Goruk, Andrea; Groves, Steven; Hornby, Greg; Jackson, Corey; Kanno, Roger; Katinic, Peter; Koroluk, Bradley; Lewis, Andy; Martens, Corey; Neuman, Amber; Norton, Brett; O'Connell, Ryan; Palfrey, Terrence; Postlethwaite, Victoria; Potyrala, Mark; Rusch, Bryan; Sanderson, Leslie; Spence, Brenda; Spence, Michael; Sylvestri, Nicholas; Thompson, Matthew; Wong, Kristen
Subject: Sept 5/7 Meeting Record DRAFT
Attachments: Draft Herring Working Group meeting record - September 5.docx

Follow Up Flag: Follow up
Flag Status: Completed

Hi folks,

Attached is the meeting record from our September 5 & 7 HWG meeting. These are still in draft form and there may be points that need clarification or editing, but I wanted those that weren't able to call in to have the notes prior to the IHHP C call tomorrow.

For those that were on the call, if you have any edits please feel free to send them along.

Cheers,
Victoria

Victoria Postlethwaite, MRM
Regional Herring Officer / Agent Régional du Hareng
Fisheries and Aquaculture Management / Gestion des pêches et de l'aquaculture
Fisheries and Oceans Canada / Pêches et Océans Canada
Victoria.Postlethwaite@dfo-mpo.gc.ca
Tel. / Tél.: 604-666-7851; Cell. / Tél cell.: 604-

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du Canada

Canada

Herring Working Group

Meeting Record

This meeting occurred in two parts, 8:30-10:15AM on September 5 and 8:30-11:30AM on September 7.

September 5, 2018

Attendees: Terry Palfrey, Bryan Rusch, Amy Ganton, Rob Kronlund, Steven Groves, Wen-Bey Liu, Jennifer Gordon, Jaclyn Cleary, Roger Kanno, Amber Neuman, Brenda Spence, Victoria Postlethwaite

- Staffing update: Jennifer Gordon is the new Kitkatla resource manager in PRD, seine manager

Overview of Planning Committee meeting

- Last time we met with Planning Committee was July 10, prior to CSAS meeting
- CSAS meeting was held on July 25, 26
- Next step was look at options and recommendations to present to Planning Committee
- Deck for this meeting was updated through email input from science and resource management
- Meeting today (September 5) with senior management will be a good check-in to see if we are at the right level for our meeting on Sept 12 with RDG

Planning Timeline Review (consultation handout)

- Timelines can be found here: Z:\Herring\Planning\2018 Planning\Proposed Timeline for Pacific Herring 2018-19 rev Sept 11 2018.docx (internal) and Z:\Herring\Planning\2018 Planning\External Timeline for Pacific Herring 2018-19 rev Sept 18 2018.docx (external)
- Very similar timeframe to where we were last year, except that we have the complicating factor of adding/moving towards MSE
- Will be challenging to explain the approach and get decisions in a short timeframe
- September 12 RDG Meeting:
 - o No one else from NHQ that needs to be engaged for the Sept 12 meeting, in Science.
 - **Action: RM should check in with Neil and Andy if there is someone we have missed (done)**
 - o One thing we need to emphasize in the deck is why we need direction and how that will inform the science advice; Jaclyn will inform management that she does not provide a suite of options in a SR, without direction the only thing that is included in the SR is the stock assessment information and forecasting of biomass at Ot catch.
- HIAB pre-season planning call:
 - o Will be held on September 20th, seeking advice on quota for Food and Bait
- A-Tlegay meeting (September 25) – preliminary MSE objectives discussion:
 - o Science is funding hospitality and room rental
 - o Given conversation with Christa so far, the meeting will likely focus on creating buy-in and thinking about who will be involved. We don't yet have a long-term commitment to engaging in MSE.
- Roles and responsibilities for South Coast MSE:

- Brenda, Gerry Kelly, Bryan (for Andrea), and Victoria met on August 30 to discuss roles and responsibilities
- Drafted a document that shows the timeline for MSE and who would be the leads, mindful that MSE is a lot of work so focused on the split between Science and RM (both region and area staff). Meetings will be planned by RM, AAA will attend for each group, IMAWG will play more of a role in IFMP planning
 - **Action: IMAWG to be updated on this by Gerry and other attendees at the IMAWG planning call on September 10 (done)**
- Region would provide oversight and consistency
- Preliminary meetings will likely not need regional representation but more quickly moving groups will need one of the RHQ RM staff
- Special Use and Food & Bait plans:
 - Will need to be in good shape before the HIAB meeting on September 20
 - **Action: Amber and Victoria to draft 2018/19 plans prior to September 20 meetings**
- Heiltsuk initial planning meetings:
 - October 11/12 potential date, will have Science Response stock assessment by that date
 - Decision on approach for 10% or less HR likely but not specific 'no fishing' decision on CC by that time
 - Heiltsuk wants the meeting in Bella Bella. First availability to come to Bella Bella for Jaclyn is October 18, but could call in. Steven and Bryan would need to go in person, Brenda or Victoria could also go. Bryan is acting for Colin that week, so far unsure of schedule for him.
 - **Action: Steven to see if October 11 or 12 works for Heiltsuk**

HG Rebuilding

- November was initial date for planning meeting but too early for Science. Need to consider lessons learned from first MSE cycle and then Ashleen and Jaclyn will consider how they will run simulations for HG and move forward with MSE process. A & J will revisit the TOR for HG rebuilding plan; the scoping document is in draft and they will re-work this by December for draft plan. This can happen via a call or email (in person not needed).
- Need better direction from Haida on how they will be involved, based on the Land-Sea-People plan. Haida want one that is much bigger than what has been done for other stocks (rebuilding plans are usually an appendix in an IFMP).
 - **Action: Potential date of October 31 for internal meeting to review working group and TOR. Jaclyn to get confirmation on WG TOR before that date. By then, Science to set a date with Landmark for working on simulations.**
- An in-person meeting can be planned for the Spring
- Commitment is 2020 for the rebuilding plan

Stock Assessment Contract

- 2 year contract, Jaclyn been asked to wait until 5 month review has been finalized to know how much funding is available for contract. Then she will communicate to

contracting officer that we want to take a 2 year option, and then will let HIAB know what that 2 year option would include (ie. which charter vessels and what area), and then we can alter slightly.

- Currently Science does not have enough funding for the stock assessment as RHQ has not provided all the funding Science asked for. Additionally, overhead has been increased in Pacific Region for B money that Science brings in.
- By end of February other money will likely appear to fill all vessel needs. The 5 month review for SOG seemed like there wouldn't be money to top up flights.
- FN communications coordinator will NOT be funded through Andreas budget this year, AFS is also struggling for money so it is unclear how the funding will occur for this position
- Do not have a vessel yet for SOG, Neocaligus is booked but CCG is looking for other options for us. Could still go through Canadian Shore if we needed to as we had a 2-year contract (last year we did 15 days but paid for 11 as HCRS paid for remainder).
- Ask for CG vessel for 2020 season
 - **Action: Brenda to ensure this ask goes in (done)**
- North Coast FN meeting:
 - Last year this meeting occurred before the forecast was out, but Steven would like to wait until the Science forecast is out and there is more direction (ie. after IHHP possibly, October/November)
 - 2 day meeting for MSE can occur with NC FN in the spring.
 - For CC/NC MSE meetings, dates can be discussed after Jaclyn and Ashleen have their plan set for the simulations. These meetings would show the results of last year's CSAS and discuss how these results could apply to their area, including lessons learned from the most recent cycle of MSE. If another CSAS review was to occur, mid-May/June would be better to get it done earlier.

Discussion of Pacific Herring Renewal Workshop Deck - Overview of each area's recommendations

- Recommending that the UCP = USR as it scales with the assessment model and because a ramp allows for gradual increases/reductions in catch rather than an 'on-off switch' (which invites debate about being above or below the limit).
 - In SOG, the ramp is not often implemented but when uncertainty is reduced the ramp may have more influence.
- Presentation to senior management on Sept 5 and 12th will report that the CSAS review showed that there is positive bias in the assessment model, and that reducing HR and adding catch cap are the 2 most effective lever; that management has, that has the quickest response.
- For WCVI, $0.5B_0$ is chosen as the LCP: in simulations we've done so far, there's not very much difference between the MPs for 0.3 and $0.5B_0$, but we considered 3 different mortality scenarios, and under one scenario no objectives were met
 - One approach is be cautious and then also explore other options (such as the SlowUp procedure).
 - Mortality piece is difficult to convey in the summary.
 - In 2015 paper, the models were clear that if we saw mortality like we have in the last 10 years, no MP can protect against it.

- SOG is not immune to a high mortality rate, but catch cap is likely too high to be effective.
 - **Action: Brenda/Jaclyn to ensure these key points are addressed more strongly (done)**

September 7, 2018

Attendees: Bryan Rusch, Roger Kanno, Brenda Spence, Terry Palfrey, Jenn Gordon, Corey Martens, Steven Groves, Victoria Postlethwaite, Amber Neuman

Planning Herring Committee Meeting Debrief and Prep for September 12th meeting with RDG

- Received more advice from this meeting and went well; final deck presented to RDG on September 12 is here: Z:\Herring\Pacific Herring Renewal\FM-Science Workshop (Sept 12 2018)\Pacific Herring Renewal and MSE - Sept 12 Briefing.pptx
- Victoria will be doing the notes for September 12; they can be found here: Z:\Herring\Pacific Herring Renewal\FM-Science Workshop (Sept 12 2018)\Pacific Herring Renewal Workshop - Sept 12 - Action Items and Key Points DRAFT.docx

Quota HIAB Proposal

- Have not heard anything yet from senior management
 - *Update from September 12:* Quota Proposal is not supported because Pacific Region would be on the hook for the >\$1 mil in lost license fees – *this has not been communicated to HIAB yet*
- We will need to respond to HIAB on September 20th meeting
 - *Update:* Meeting has been postponed, HIAB will be notified via formal letter or at October meeting
- Got the proposal late, has implications and do not have database to manage it
- An interim step could happen but unsure at this stage what that would look like
- HIAB is not be willing to proceed without license fee reduction

Stock Assessment and Openings

- PRD:
 - Do not have stock assessment/Science advice yet but it is likely that the PRD stocks will be close to the LRP; 10% HR unlikely but 1-2% will provide almost no opportunity
 - Last year HIAB wanted to move Food & Bait tonnage to Roe, and this year there likely won't be an opportunity for Roe and F&B commercial fisheries in PRD
 - If there is just a small opportunity it is normally offered to the SOK operators as they cannot move areas
- We will have catch proportioned by Herring Section this year in the SR (~10 year average), so we can make decisions on where catch can occur based on area (like we did in 2017/18 for Area 14 and 17S)
- HIAB advice (what will the ask look like without the completed stock assessment?)
 - HIAB can recommend the whole/fixed amount, a certain level, or a range
 - We can accept their recommendation and consult on it in the draft plan (or outright reject but that is unlikely)
 - For catch cap areas, we will be consulting on the results and their recommendations

Stock Assessment/Survey Program Funding and Vessels

- No work done has been done to date on the Survey Program component of Herring Renewal, Jaclyn will be communicating to RDG that it needs to be analyzed in a simulation context
- Currently the survey program is on a 2-year contract
 - o Test charter vessels are uncertain; Science has funding pressures so some parts of the current survey contract may be held back, going to look at core part of the current contract and may hold back on some parts
- SOG:
 - o CG potentially has some vessels that are free but unsure of their suitability
 - **Action: Brenda and Bryan to follow up with CG about SOG vessel for this year**
 - o Canadian Shore has pros and cons, but we are tight on money this year
 - o Ask has gone in for Neocaligus for 2020; meeting in October for Vessel Planning Committee, confirmation on vessel will occur sometime after that meeting
 - o Top-up for SOG flights is currently in Andrea's budget but come next review it may get removed
 - o Herring FN Coordinator position is currently unfunded; AFS/Andrea's budget has funded it the last few years, but those 2 budgets are not able to fund it this year; will have to be funded somehow but unsure of from where.
- CC:
 - o Central Coast assessment channeled through Heiltsuk AFS so no changes expected
- NC:
 - o Vector is still available for this year in North Coast and ask for next year (2020) will be going in this week.
 - **Action: Steven to put in the ask for Vector for 2020**
 - o Swapping the Tanoo for the Vector is a possibility; Tanoo is a bit bigger so is inconvenient in the SOG.
 - **Action: Once there is confirmation for the Tanoo, Brenda and Steven will discuss this further**
 - o NC has put request through to Science for use of drone but needs updating. Steven and Corey have scoped the drone out to work this year.

Metlakatla Main Table Meeting (September 11)

- Herring is the on the agenda (general herring questions)

September 20 IHHPC/HIAB meeting

- HIAB is scheduled for noon
 - o *Update from September 18:* This meeting had to be cancelled due to a conflict. HIAB will be rolling over their Food & Bait advice from last year and will re-evaluate at October meeting.
- IHHPC scheduled at 9-11
 - o Will include review of upcoming timeline

SR WebEx

- Science is planning this WebEx on October 10 to review the results of the SR
 - o Unsure of timing or if we will be offering an in-person option
 - **Action: Victoria/Brenda to follow up with Jaclyn on this**
- WG will be able to and should call in on October 10
- Results will be available October 5

Risk Assessments

- October 3 is the tentative date for the WebEx for SOK license holders
- Draft Roe and Food & Bait Risk Assessments will be going into IFMP in this coming cycle

Satellite Project

- Ryan O'Connell will present at HWG in October on this project
 - **Action: SC/RHQ to look for funding for this (and consider drone project as well)**

IHHPC TOR and Attendees

- IHHPC is in need of SOK and increased First Nations reps, as well as possibly public reps, as attendance has been poor
 - o Islands Trust in SOG have expressed an interest in participating
- Interest from NC to expand invite list to all NC First Nations and SOK license holders; they could attend as 'observers' (that number of people is unlimited). Steven could forward the invite as appropriate.
 - **Action: Steven to draft wording about participation as observers (ie. not membership) and forward as appropriate**
 - **Action: SC to consider who else they think should be invited (ie. Islands Trust?)**
- This issue will be raised on September 20th IHHPC call, and will be discussed at pre-season meeting in October (ie. inviting others and reviewing the TOR)
- SOK Rep:
 - o Difficult to include SOK rep without advisory board
 - **Action: Steven to send out letter to all SOK license holders requesting nomination to sit on the IHHPC, prior to IHHPC October meeting**
 - **Action: Victoria to send Steven the HIAB nomination forms/letters for reference (done)**
- The current system was adopted because before this we had huge herring meetings that we had to condense.
 - o If we did have a lot of people attend, we can elect more reps to attend rather than all of them.
- Could seek confirmation of IHHPC attendees participation either over the phone or in person, and only send out material to confirmed attendees.
 - o Goal is to have material out to IHHPC well ahead of the October meeting so that they have seen them in advance of the presentations

- Marine Planning group and maybe others will have consultation material for us to use, and RHQ will also provide a deck on key initiatives within the department, as was done in the post-season meeting

SOK Transferability

- Lyle Pierce has written a letter to RDG about this; Brenda spoke with him on Sept 7th and he would like try again at making SOK licenses transferable.
 - o Recommendation to Lyle was to consolidate his opinion with other license holders, but there is little interest in terms of capacity and representation.
 - Action: Victoria to support Lyle Pierce with briefing note and other materials for SOK transferability
- The request for SOK transferability has to be approved by the IHHPC; this has been brought up ~5 years ago and was supported by IHHPC; but due to the length of time since then, their support should be sought again
 - o Official responses have not been provided to IHHPC because we have never received an official answer
 - Action: RHQ to add to agenda for IHHPC October meeting, and after discussion with the IHHPC, Brenda, Steven and Victoria to work on revising a briefing note and sending it through the system

FSC License Amounts

- Kristen had raised this issue last season (ie. amount on expected use table vs. amount on licence vs. actual amount harvested)
 - o This issue was identified a few years ago as a coastwide issue
 - o Changing what is on communal licenses is a longer-term project but we can provide the amounts on the expected use table of allocation amounts
 - Action: Area staff to provide allocation amounts for FN communal licenses by stock area and report back on it at HWG → Victoria to send email with official ask to gather this information prior to HWG meeting

Nuxalk SOK License

- The other half of J36 (1/2 is with Oweekeno) is sitting in reserve, but have been borrowing for Heiltsuk for a while.
 - o Last year DFO notified Heiltsuk that it would be the last year for that 8000lbs so this year the Nuxalk have requested that they get the other half of J36 to add to their current ½ (they would then have full J allocation).
- The response back from DFO so far questions why would we issue the license to them over others; it was obvious with Heiltsuk as it was through a program to expand their SOK production but with Nuxalk we don't have that. Oweekeno has a J license but that was given as a treaty related measure.
- Currently, we haven't done anything with the request except have written back to say thank you for the letter
- Nuxalk have asked for it before, verbally, and economically it makes sense because 8000lbs is a very small amount

- Last year Nuxalk pooled with the other licenses in their area
- Currently do not have a process to purchase or re-allocate licenses
- Next steps:
 - Discussion between Steven, Mark, Kristen, Brenda, Victoria on September 24 re: if there are any other considerations, including other First Nations and precedent of issuing to them (ie. what is the expectation that they get this license annually)
 - Need a 'why' – right now allocating the license would just arbitrary.
- General SOK: In Area 10, we will go again with 3 open ponds (same as last year) and will need to do minor consultation process to make sure everyone on board.

Other Herring Week Planning

- General
 - **Action: ALL to notify Victoria of who is attending in person**
 - Jenn Gordon attending for Steven
- Working Group (Oct 15-16):
 - Agenda to be developed
 - **Action: ALL to send Victoria any agenda items to be discussed**
- IHHPC - Oct 17
- HIAB (Oct 19):
 - Will give HIAB update on IHHPC meeting, used to be useful to have HIAB first when they gave harvest advice but now we don't work that way, and this meeting likely won't be the full day (they will caucus in the afternoon)
 - Will include discussion on MSE and HIAB will likely be frustrated about MSE
- Following Herring Week, F&B fishery and SU fishery starting shortly after on November 7, and then the full IFMP will go out for consultation

EFM-SI Update

- Systems Integration project for catch, effort, and quota management, across all regions and fisheries
- Product at end is unclear but planning for interim steps to aid in managing catch and effort
- Right now in the 'scoping' stage; Victoria to attend another workshop in Ottawa in early December

Meeting adjourned at 11:30

September 5, 2018 - HWG - Amber Neuman Notes

2018-September-05

8:52 AM

Review of how we got to where we are with the MSE briefing

- July 25 - CSAS
- Look at results and make recommendations to herring planning committee
- RM/Science worked together to develop/review deck to be presented to senior management

Review Work plan and Timelines

- Pre-Season Planning Timeline for Pacific Herring 2018/19
- Question for Neil/Andy - Is there anyone else that needs to be invited to the Sept 12 meeting.
- Needs to be explicit in the
- HIAB meeting - need to prepare and present
- A-Tlegay meeting - Sept 25
 - Who will be attending for Resource Management? - Andrea, Amber, Kent, Jaclyn, RHQ (possible)
 - Ashleen will not be present.
- Aug 30 meeting with Brenda, Bryan & Gerry - Drafted a document around roles and resp.
- Sept 26 - Advice around potential for increasing catch caps in areas.
- Need ministerial decision on management approach before we can have the RDG approve fishing plan.
- Haida Gwaii - Rebuilding planning meeting not in timeline. Jaclyn - No need to meet in person until there are simulation results (something tangible).
 - Need direction from DFO, how will the Haida be involved?
- Oct 31 - Internal meeting
- Stock assessment contract
 - Communicate to contracting officer that we want the year 2 option.
 - Take it back to HIAB
 - Jaclyn does not have all of the funding that has been asked for from NHQ.
 - May have to put some charters on the waitlist.
 - The contract has a maximum dollar value. Multiply charter vessel cost by number of days - total cost is more than the max. value of the contract.
 - Possible - In Feb may be more money?
- For SOG doesn't look like SOG will have funding for flights. Herring communications coordinator - no funding in Andrea's budget this year. May not have enough money in AFS to cover.
- ASK - MNGT PLATFORM ASK TO CCG
 - CCG is still looking for other options for us. If all else fails will use the Canadian Shore contract under the 2 year contract option.
- Need a separate discussion WRT to PRD, HG, CC MSE. Plan for meetings next spring.
- Need science discussion on science workplan under herring renewal - what are the most important pieces to advance science understanding to move MSE forward? Jaclyn, Ashleen, Rob, Sean
- If another CSAS review - would like to complete in May/June 2019

Review key Management Recommendations

- Reiterate that a management approach is needed for science advice
- *Under one of the mortality scenarios for WCVI, no management procedure met objectives. By increasing LCP to 0.5B0, gives higher level probability of meeting objectives. In presentation include * and description - why LCP 0.5B0 for WCVI and 0.3B0 for other areas
- False sense of security around simulations in WCVI and SOG - may have a spike in natural mortality that these simulations cannot protect against. Catch caps can protect against this. In SOG 30,000t catch cap is likely too high to be effective.

Sept 7, 2018 - HWG - Amber Neuman Notes

2018-September-07

8:36 AM

Pacific Herring Renewal Element 1:

Planning Committee meeting debrief (what we heard)

- Advice from Neil & Andy - Provide best information that we have and ask for support from RDG to move forward on this.
- Propose 2 decks - Science Results & Recommendations
- 2nd deck on risk assessment
- Hope to get updates to Neil today to review

Preparing for September 12th meeting with senior management on approach for 2018/19

- Next week - Brenda working on finalizing agenda

Pacific Herring Renewal Element 2 and 3:

HIAB Quota Management Proposal

- Need to check with Andy - it is too late and there are implications that we can't put in place for this year.
- If there is an opportunity, SOK usually gets the first opportunity.
- Advice from science will include proportion of spawn by area.
- Look at proportioning catch per PFMA
- Hoping to have some advice from senior management on quota proposal so that we can report back to HIAB on Sept 20.

HIAB Sept 20 meeting - Don't have the stock assessment information yet. We have the area summaries and advice through July CSAS. They can provide advice into the areas. Full amount into full amount? 4000 t ? Or a range?

Acknowledge catch cap areas - consulting on results and there recommendations.

Stock Assessment Funding, Survey Program & Other Funding Pressures

Test Vessel Charters

- Funding is not certain
- They will look at core portion of the contract and shaving off where they can. Hoping to secure more funding later in the year.
- Stock assessment in science is not secured funding.
- Steven has to talk to Steven Fetterley to see what funding is available through Heltsuik AFS agreement.
- Rights based fisheries - department has taken on the cost of validation (JOT) i.e. in CC

Management Platforms

- May be able to get the Tanu - look at cost and how
- Cost/benefits to using the Canadian Shore
- Ask has gone in for Neo for 2020 - sent to Andy and CCG. Meeting at end of October to look at scheduling and availability
- CC - Vector is still available for 2019. Putting in ask for 2020.
- Steven and Brenda - May be able to swap Vector/Tanu. Vector is smaller so works better in Baynes Sound. Tanu would work on Central Coast.

Drones

- Corey looking into it.

Herring Coordinator Contract

- Currently unfunded (AFS & Andrea's budget has funded in the past) - no money in Andrea's budget to this.

Flight Program

- Top-up from Andrea's budget in the past, will not likely be available this year.

OT

- No allocation in Andrea's budget.

If lots of O&M can convert it but that's expensive.

Upcoming Meetings

Metlakatla Treaty Table - next Tuesday Sept 11

- Steven & Brenda meeting with them on the 11th.
- North Coast Nation
- They have had discussions around

RDG Meeting - Sept 12

IHHPC Call - Sept 20 - Where we are in the planning cycle, what to expect in the coming months.

- If an additions/comments for agenda - send to Victoria/Brenda

HIAB - Sept 20 - I will present at 12:30

SR webex on Oct 10, results will be published on Oct 5

Risk Assessments

- Letter has gone out to SOK licence holders.
- Working on getting a webex with SOK operators - proposed Oct 3.
- There may not be the interest but there will be an opportunity.
- Nov 5 - requested feedback from SOK.
- Roe, F&B and SU are done - HIAB has provided comments.
- Intention to put into IFMP as a draft for comments. If no comments/minimal comments may be able to finalize in this IFMP.
- Would be finalized for the IFMP in the next cycle.

IHHPC TOR and Attendees

- SOK representation
- Public Representation - not a good example in other fisheries. How do we incorporate groups that would like to have a voice (e.g. Islands Trust)
- Goal - trying to solidify representation.
- Having a webex should help attendees.
- Corey tried to update TOR but it was unsuccessful.
- Steven - would like to expand invite to all NC FN and SOK operators. Unlikely that we will get a huge influx of people.
- Roger - does not require a change to TOR, there is an option for observers.
- This invitation may be extended to SC FN and public groups that have an expressed an interest.
- Bryan - perspective that in the past the meetings were overwhelming and got out of hand - agrees that better participation is needed but proceed with caution. e.g. Islands Trust -
- Steven to write a letter to NC FN - invite as observers to IHHPC.
- RHQ/SC - look at letter and use. Make sure we confirm attendees. Only confirmed attendees get materials.
- Need to get materials out well in advance of the meeting - at least 1 week before.

SOK Transferability (Lyle Pierce)

- Would like to make the case to get this back on the table for consideration. This would be best achieved by having a SOK rep at the table at IHHPC.
- This request was tried in the past but no decision was made.
- Steven - Thinks sending a decision note to the minister would be best course of action rather than telling them to send a request back to IHHPC.
- Brenda - We've taken a run at this, it didn't go anywhere but now might be a good chance to try again. Need to send through IHHPC again. Saying that IHHPC endorsed 5 years ago is insufficient on it's own.
- Can Steven get a SOK rep lined up prior to IHHPC? Victoria can send Steven letter that she sent out.

Herring Week Planning

- HWG Oct 15-16. IHHPC Oct 17
- Let Victoria know who will be attending in person.
- HIAB will likely be on the Friday, Oct 19. Seine fishery on the 18th. Friday meeting is not ideal but will have to work with it.
- NC - Budgeted for 3 staff members to attend. Steven will not be able to attend
- Jen will be attending WG & IHHPC

Satellite Project:

- Ryan is coming to HWG and can speak to satellite project
- This will be a good place to talk to drone project
- Discuss funding opportunities.

FSC Licence Amounts

- Kristen - concerned about what was on the expected use table vs. licence vs. what was harvested

- Communal licence issued with greater amount than expected use table. Kristen usually gets good FSC catch numbers.
- May be a regional project - e.g. WCVI with Ma-Nulth Treaty. What's actually on the licence?
- Area staff look at expected use table and the communal licences - report back at HWG. Run a report in NSLIS - follow-up with AFS staff.
- Victoria - put an ask out to area staff.
- Brenda - whatever is on the licence (i.e. allocation) should be on the expected use table.
- Steven - Is there a standard unit that we should be using? Short tons of whole herring is in the expected use table. e.g. SOK/SOB - convert
- Bring back to HWG how it is actually reported on licences (e.g. lbs SOK/SOB)
- Terry - look at the treaty stuff that has been done (e.g. calculations) as a reference

Nuxalk (nu-hulk) SOK licence

- Request has just come to the department. We haven't done anything with it.

EFM-SI update

- Meeting scheduled first week of December
- Getting information on logbook and hauls
- Right now it is still a probing/scoping exercise
- End goal is to have a large system that can be used for catch information and quota management.
- Pelagics does not have an accountability centre for all pelagics data (i.e. like shellfish).

Action Items that apply to Amber:

- Amber/Victoria - Get SU & F&B Plans together for Sept 20 meetings.
- F&B deck for HIAB - Sept 20.
- RHQ/SC - look at NC letter and use to invite . Make sure we confirm attendees. Only confirmed attendees get materials.
- Need to get materials out well in advance of the meeting - at least 1 week before.
- Collect allocation amounts by stock area on FSC to match to expected use table.
- SOG presentation for HWG
- HWG agenda - send items to Victoria/Brenda

Neuman, Amber

From: Postlethwaite, Victoria
Sent: 2018-October-22 4:24 PM
To: Beisel, Mark; Bromley, Monte; Chow, Darren; Cleary, Jaclyn; Daniel, Kristen; Edwards, Robert; Fetterly, Mark; Ganton, Amy; Gordon, Jennifer; Goruk, Andrea; Groves, Steven; Hornby, Greg; Jeffrey, Karen; Kanno, Roger; Katinic, Peter; Koroluk, Bradley; Lewis, Andy; Liu, Wen-Bey; Martens, Corey; Neuman, Amber; Norton, Brett; O'Connell, Ryan; Ottley, Jessica; Palfrey, Terrence; Postlethwaite, Victoria; Potyrala, Mark; Rusch, Bryan; Sanderson, Leslie; Spence, Brenda; Spence, Michael; Thompson, Matthew; Wong, Kristen
Subject: Herring Working Group Meeting Record
Attachments: HWG Meeting Records Oct 15&16 2018.doc
Follow Up Flag: Follow up
Flag Status: Completed

Good afternoon Herring Working Group,

Attached is the meeting record from our 2-day meeting last week. Thanks to Amber, Ryan and Jen for recording these.

Please review when you can and note the action items you are implicated in. A few of them have already been completed, and I will try to hold us all to the rest over the next few months. If you have any edits or points of clarification, please let me know.

Cheers,
Victoria

Victoria Postlethwaite, MRM
Regional Herring Officer / Agent Régional du Hareng
Fisheries and Aquaculture Management / Gestion des pêches et de l'aquaculture
Fisheries and Oceans Canada / Pêches et Océans Canada
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RECORD OF MEETING

Herring Working Group

2018/19 Pre-season

October 15, 2018

Morning

Attendees:

Ryan O'Connell, Amber Neuman, Amy Ganton, Andrea Goruk, Brenda Spence, Jaclyn Cleary, Jen Gordon, Corey Martens, Steven Groves, Victoria Postlethwaite, Roger Kanno
Phone: Kristen Wong, Terry Palfrey, Brad Koroluk, Matt Thompson, Jessica Ottley

1. Agenda item: Staff Updates

Key Issues Discussed:

- North Coast: Jen to do seine fishery, depending on how the fishery plays out. Brad and Kristin in CC. Jessica's first year, to be office-oriented coordinator. Stephen to provide help as needed. Peter likely to continue salmon work.
- South Coast: Amy is new and to be WCVI lead

2. Agenda item: Review of Timelines

Key Issues Discussed:

- Heiltsuk have seen Science document, but need some time to digest it. Brigitte Dorner will need to give them her interpretation (sits on HTWG)
- Draft IFMP completion planned for December
- Objectives planning meeting with North Coast FNs (Metlakatla, Kitkatla, Lax Kw'alaams): Need to think about how many meetings we can keep engaged with. First Nations may not be able to digest simulation results without DFO help. MSE update and consultation on plan a good first start, can do objectives planning in a follow up meeting.

Recommendations/Decision(s) Made/Deferred:

- Get Brigitte to talk to Jaclyn, and Heiltsuk to talk to Brigitte

Action Items:

- Steven: Heiltsuk planning meetings and setting dates (first week of November).
- Jaclyn: touch base with Brigitte re: SR
- Victoria: Check RDG's schedule, to plan for signoff of IFMP
- Steven/Area RM: invite North Coast FN to meeting. Dates to be determined with Jaclyn, week of Nov 19 likely.

3. Agenda item: Risk Assessments

Action Items:

- Victoria: Flag SOK RA at next IHHPC meeting
- Victoria/Steven: get SOK RA on Agenda for next Heiltsuk meeting

4. Agenda item: MSE**Key Issues Discussed:**

- Engaging Industry in MSE

Recommendations/Decision(s) Made/Deferred:

- Movement forward requires the same representatives attending the meetings to build understanding of the process.
- Roger is the Centre of Expertise in MSE

Action Items:

- Anyone who attends an MSE meeting: please forward the notes to Roger Kanno
- Brenda: create MSE timeline slide for IHHPC/HIAB

Afternoon

Attendees:

Ryan O'Connell, Amber Neuman, Amy Ganton, Andrea Goruk, Brenda Spence, Jaclyn Cleary (left at 3:30), Jen Gordon, Corey Martens, Steven Groves, Victoria Postlethwaite, Roger Kanno
Phone: Kristen Wong (left ~3:00), Terry Palfrey, Brad Koroluk, Jessica Ottley

5. Agenda item: 2018 Stock Assessment and 2019 Forecast (SR Results)**Key Issues Discussed:**

- WCVI: Not showing older age fish, indicates higher predation pressure or they are leaving. Decline in weight at age from 1980's to 2010 for all stock areas, there has been a leveling off and an increase since 2010. Spawn index information for multiple years and various historical periods to provide better overview so as not to make decisions on 1 year alone.
- For PRD and CC, because simulations were not conducted in cycle 1, operational control points (OCP) have not been established yet. For SOG, the lower OCP is the same as LRP; for WCVI, lower OCP is higher ($0.5SB_0$) than LRP($0.3SB_0$).
- PRD: not enough recruitment to see growth in stock. Simulations of different conservation objectives for PRD may lead to a different LRP being defined, as LRP for PRD is currently applied by proxy.
- SOG: Model is estimating a trend through the data and does not seem to be picking up lower spawning biomass points in 2017/2018 – we don't know if stock is actually declining. Until there is a ranking of objectives to rank MPs against, cannot provide further advice on appropriate MP.
- WCVI: decrease in natural mortality appears to be compensating for low recruitment in recent years showing stock growth. Trend is increasing but it is highly variable and erratic. A

slow-up procedure would allow growth away from critical zone. Best performing MP for 2019 would still be on the ramp (i.e. <10%).

- Both CC & PRD: Probabilistic decision tables.
- Heiltsuk is looking at impact of SOK on the stocks
- Decision tables show $P(SB_{2019} < 0.3SB_0)$, avoiding LRP with high probability is the opposite (e.g. probability of avoiding LRP = $1 - P(SB_{2019} < 0.3SB_0)$).

Recommendations/Decision(s) Made/Deferred:

- Need to review results in more detail for CC & PRD for implications for SOK. If closing Roe, will SOK also close? Also need to consider consistency across areas. In CC look at possibility of open ponding operations only – 665 tons?

Action Items:

- Brenda: Insert a slide on IHHPC deck explaining how to read decision tables.
- Jaclyn: Prepare ½ hr presentation for IHHPC with a focus on panel graphs.

6. Agenda item: Harvest Options

Key Issues Discussed:

- Explicit that in areas where commercial fisheries are closed, there will still be FSC opportunities. FSC removals were included in simulations even in absence of commercial fishing.
- For probabilistic decision tables – important to remember that assessment model has positive assessment bias, may warrant more conservative approach. Use lessons learned from simulations from SOG and WCVI.
- MPs and Objectives that are added/requested can be included in simulations without triggering a CSAS review because the model hasn't changed.

Recommendations/Decision(s) Made/Deferred:

- Consider open ponding only in CC – catch is proportional to biomass. Is this an option for traditionally closed pond operators and or in other areas?

Action Items:

- Victoria and Brenda: Update slides:
 - o Remove resources from 2018
 - o Include stock assessment advice 2019, and advice/decision from 2018.
- Victoria or Brenda: Ask Mark Fetterly about priority of commercial aboriginal fishery relative to commercial fisheries

7. Agenda item: SC Area Items & First Nations Herring Roles & Responsibilities

Key Issues Discussed:

- Concerns from industry about pace of change and application of MP. Trying to apply MSE approach consistently.

Recommendations/Decision(s) Made/Deferred:

- With MSE specific meetings Regional staff will try to be available. For non-MSE meetings (e.g. IFMP/fishery planning), region may or may not attend depending on availability and topic.

Action Items:

- Amber: Remove dates of meetings in R&R document. Leave space under each group for specific notes to that group. Share document with North Coast.
- South Coast: Need to go into detail on the list of NTC objectives before next meeting (at NTC pre-planning meeting)

October 16, 2018

Morning

Attendees:

Steven Groves, Jen Gordon, Victoria Postlethwaite, Amy Ganton, Amber Newman, Brenda Spence, Roger Kanno, Andrea Goruk, Bob Edwards, Mark Fetterly, Ryan O'Connell, Corey Martens.
Phone: Jessica Ottley, Terry Palfrey, Kristin Wong, Brad Koruluk

8. **Agenda item:** Licensing and Operations Update

Key Issues Discussed:

- Food and Bait licenses almost ready to be issued.
- Herring roe licensing ready
- May not be area selection this year.
- Herring SOK contact is Karen Jeffrey
- Chasing licence holders down has been a holdup in the past (ie. certain SOK licence holders needing to designate gillnet licences inactive prior to SOK issuance)
- DFO Inventory licences: what are we going to do with these? Depends on fishing plan
- Food & Bait selection around December.
- At-sea observer letter – licensing is provided personalized letters by FM, will be able to include these letter with licences through NOLS. Personalized letter include vessel master names, etc. (see Chris Manore recommendations).
- Licensing “how to” documents available for distribution to commercial harvesters/FM.

Recommendations/Decision(s) Made/Deferred:

- Reach out to SOK licence holders to communicate timelines
- 1 business day turn around for any Food & Bait selection adjustments. Continue with same process as previous years (same amount of quota on all licences).
- Ask HIAB about Food & Bait fishing in PRD and clarify fisheries notices to reflect decisions made for fishing plans.

Action Items:

- Bob E: get email contact information for SOK licence holders from Steve to communicate timelines and requirements for licence issuance (after touching base with Karen J.).
- Bob E: reach out to Karen J. (SOK lead) to offer assistance.
- Victoria/Amber: follow up with Groundfish unit re:personalized letter for at-sea observer requirements. Bob to discuss on licencing call.

9. Agenda item: Licence Conditions/Fisheries Notices

Key Issues Discussed:

- Main updates: basking shark, seabirds, marine mammals (share at HIAB).
- Specific closures are in COLS – regs determined this is redundant, but this is the document held on board by vessel masters.

Recommendations/Decision(s) Made/Deferred:

- Leave closures in COLS
- Continue to follow roe test code conventions in Fishery Notices
- Including sounding observations in Fisheries Notices is helpful.
- Fisheries notices must be submitted by 2pm.

10. Agenda item: C&P update (Amber N. on behalf of Monte B.)

Key Issues Discussed:

- Herring is not on dedicated workplan for SC C&P (no resources available)
- Occurrences spreadsheet can be shared with C&P and other managers.
- Monte Bromley is the main contact for SOG C&P.
- CC area is hoping for new staff, but staffing is limited. Herring is unlikely to be a priority.
- MPP platform is an option if other C&P staff are unavailable.
- First Nations contact C&P to disclose bough setting locations, but this is not filtering to FM.

Recommendations/Decision(s) Made/Deferred:

- FM can consider reaching out to MPP platform for opportunistic on-grounds support.
- FM could develop a 1-pager cheat sheet on the herring fisheries for C&P reference.
- PAL flight is another option to be tasked for observation flights (Bryce Gollard is a contact).
- Discuss communications with C&P at next FM/C&P conference call.

Action Items:

- Area staff: coordinate with MPP (Steve to take NC lead, Amber for SOG (contact is Mike Crottey)).
- Steve: share crab C&P cheat sheet for reference.
 - o Amber: update for herring.

11. Agenda item: Key Considerations by Area

Key Issues Discussed:

- Filled in a table with issues and considerations. Saved on pelagics drive (WG 2018 folder):
Z:\Herring\Working Group\WG 2018\Pre-season October 2018\Area Considerations 2018-19.docx

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Action Items:

- Mark F: [REDACTED]

12. Agenda item: SOK Transferability

Key Issues Discussed:

- Need to get advice from IHHPC on any amendments.
- Would we put restrictions unique to each category: ATP owned, First Nations owned, non-First Nations owned licences.
- Could just be through PICFI process only (DFO is only buyer).
- Currently permitted long-term leasing.
- Other option could be open (no restrictions).
- Licencing has new procedures regarding licences maintained by estates (max 3 years).

Recommendations/Decision(s) Made/Deferred:

- Could distribute letter to invite feedback and participation on this issue.
- Possible option could be no restrictions on transferability, but not permitting movement between areas
- Issue would be described in Briefing Note.

Action Items:

- Brenda: ask Neil on best approach for moving any transferability changes through the system – 2 briefing notes or 1?
- Steven: lead SOK transferability (including determining who will be involved).
- Brenda: Bring up this issue at IHHPC

Afternoon

Attendees:

Steven Groves, Jen Gordon, Victoria Postlethwaite, Amy Ganton, Amber Newman, Brenda Spence, Andrea Goruk, Ryan O'Connell, Corey Martens
Phone: Jessica Ottley, Terry Palfrey, Kristin Wong, Brad Koruluk

13. Agenda item: Expected Use Tables

Key Issues Discussed:

- Some areas have a discrepancy between FSC allocations on licences and the expected use table.
- PRD: mandate amounts is 600 tons, but when Tsimshian Tribal Council dissolved a reserve allocation was not assigned to a specific group – anticipated to be used in treaty negotiations.

- Conversion from spawn on kelp to whole herring
 - o Ex. Tlamin
 - 62600lbs whole herring -> 5008lbs closed pond
 - 62600lbs whole herring ->14309lbs open pond

Recommendations/Decision(s) Made/Deferred:

- Include calculations and sources for FSC allocations in table for deck.
- Internally review AFS mandate amounts for each group and compare to licence allocations.
- Include area 10, 12, and 27 amounts in expected use table (currently blank).
- Suggestion to consider developing allocation amounts based off of abundance for any treaty negotiations.
- Follow up call on how we reference SOK allocations in communal licences to see if there can be consistency across all areas. SC is having a call to discuss communal licences

Action Items:

- Kristin: share AFS mandate table to Brenda/Victoria/Andrea for review.
- NC area staff: organize a call to discuss communal licence condition consistency.
- Victoria to lead working through the allocation spreadsheet table as a group through email and make adjustments as necessary

14. Agenda item: IHHPC and HIAB planning

Key Issues Discussed:

- Review of previous IHHPC Action items
- IHHPC TOR
- HIAB agenda

Recommendations/Decision(s) Made/Deferred:

- Include 1 slide with spawning timing and distribute other area graphs by email.
- Reference IFMP summary to address action item regarding the history of Pacific Herring Renewal and inquire if further details are required.
- Work with IHHPC to determine an approach to amend the TOR (create small committee?)
- Work on HIAB deck further on Thursday after IHHPC. Include mention of First Nations closure requests to inform fishery planning discussions and specifically ask potential impacts to industry.
- Will need to get advice from HIAB on catch caps for food/bait.
- Would HIAB like to keep opportunity for area selection for PRD/SOG food/bait?
- We will likely recommend to keep area 17S closed.
- PRD is not looking optimistic for a fishery opening

Action Items:

- Brenda/Victoria: work on HIAB deck on Thursday and distribute for final review before the meeting.

15. Agenda item: Area Specific Planning/operational issues for each active fishery

Key Issues Discussed:

- PRD Drone: Waterproof drone (~\$2500), not currently in NC budget but will review at 8 month. Could we trade 1 flight for the drone? Need to confirm flight capabilities of the drone models.
- Satellite project
 - o Compared to visual observations with overflights. Provides flexibility
 - o Access online catalogue for \$1000
 - o Some images may require processing
 - o Additional strengths – consistent survey methodology, could be good option for CC.
 - o Additional weaknesses – cannot be used for real time fisheries management.
- ASO (A-Tlegay): Allows capacity building for fishery monitoring.
 - o SOG Management Platform: Do not have the Neocaligus and looking at other options. Could also do a stand alone contract but the Canadian Shore must be notified by December.
- CC spawn flights in April: in 2017/18 funding was difficult to obtain. Satellite option could supplement.
- RMS (Record of Management Strategies): Amber developed for SOG. Template available for other areas. Send to regional office and science if completed.

Recommendations/Decision(s) Made/Deferred:

- Satellite imagery approach seems like an interesting new option to explore.

Action Items:

- NCA staff: further discuss drone options and budgets.
- Ryan: check in with Jaclyn about piloting satellite images approach and how to structure the design to supplement or replace existing program. Also Ryan to give budget to Brenda (min. \$5k) and work with Kristin/Brad about CC options.
- Amber/Andrea: take another look at ASO/A-Tlegay pilot and touch base with Greg.
- Brenda: working on securing funding for Management Platform, ASO, and satellite project
- Andrea/Amber: work on stand-alone contract for management platform for SOG (working with Jaclyn).
- Area staff: coordinate an AFS herring project list (existing, considering for other projects with re-profiled funds, etc.). Coordinate a call with Jaclyn to discuss.
- Kristin: distribute excel spread sheet with updated list of herring specific AFS projects.

16. Agenda item: Key Messaging for anticipated questions**Key Issues Discussed:**

- Anticipated questions were outlined and answers developed by the group:
[Z:\Herring\Working Group\WG 2018\Pre-season October 2018\Oct 2018 IHHPC HIAB Key questions and messaging.docx](#)

Oct 15, 2018-HWG Vancouver- Amber Neuman Notes

2018-October-15

9:00 AM

Time	Item (Objective)	Lead
9:00 - 9:15AM	<p>Welcome, introductions, review of agenda and objectives, staff updates Brenda Spence, Andrea Goruk, Steve Groves, Victoria Postlethwaite, Jaclyn Cleary, Jennifer Gordon, Corey Martens, Ryan O'Connell, Amber Neuman, Amy Ganton Phone - Kristen Wong, Terry Palfrey, Brad Koroluk, Matt Thompson</p> <ul style="list-style-type: none"> North Coast Staffing updates - Jen will be in NC for salmon and herring. She will likely be covering the roe herring seine fishery. Corey PRD - gillnet. Brad - Roe & Kristen - SOK. Jessica Ottley - developmental position will likely be going out on test fishery and helping out with fishery notices. Steven will go out on the boat with Jen then go down to CC to help Kristen with SOK. Peter Katinic on HG. SOG staffing update - Amy Ganton / Ryan WCVI, Amber/Bryan/Terry SOG. Christine not on herring this year. 	B. Spence
9:15 - 9:30AM	<p>Review of timeline</p> <ul style="list-style-type: none"> Action - Amber follow-up with Kent re: QARS meeting date Action - Jaclyn to follow-up with Bridget re: SR review by Heiltsuk for Heiltsuk planning meeting. Action - Victoria - check the RDG schedule to sign off the IFMP final approval. Action - Steven/Corey/Jen - setting up meetings with Lax Kw'alaams / Metlakatla / Kitkatla (Kitasoo) - MSE update / consultation for planning in Nov. At that meeting set meeting for objective setting - Feb? Haida - do not need to meet again until there are simulation results. 	V. Postlethwaite
9:30 - 10:30AM	<p>Update on DFO initiatives: SFF, SRKW, Marine Planning</p> <ul style="list-style-type: none"> RCA review - may impact gillnets (e.g. Gabriola) Marine Mammal Reporting - Lee Harbor, advisor Question has been asked about herring abundance as a source of prey for Chinook salmon WA State task force on the recovery of killer whales - report asking for a moratorium on herring fisheries. Cholera - no updates yet - hoping for more information on Oct 26 conference call Norovirus - Report released. HIAB working with TC. Aquaculture working with ECCC on potential seasonal closure around the Herring Fishery. 	B. Spence

	<ul style="list-style-type: none"> • New National Fishery Monitoring Policy - Consultation until July 2019 • Risk Assessment - draft roe(sn/gn), F&B, SU, SOK in 2018/19 IFMP as appendices. SOK - have only heard back from Haida. FSC fisheries - next year. <ul style="list-style-type: none"> ◦ Action - Flag SOK risk assessment at IHHPC & next Heiltsuk meeting, ask for more feedback. • Safety at Sea - Support fish safe and HIAB to advance vessel safety. Fish safe drills day on grounds for roe. Have also done one-on-one drills with F&B as they come online in the F&B fishery. 	
10:30 - 10:45AM	Health Break	
10:45 - 11:15AM	<p>Update on FA Amendments and Proposed Regulations - Roger Kanno</p> <ul style="list-style-type: none"> • BillC-68 Feb - Could receive royal assent in spring of 2019 and come into force soon thereafter. • Consultation on regs is expected to be in Oct/Nov and conclude in Jan 2019. Will be depended on federal election. • List of stocks in regulation - include stocks that currently have rebuilding plans or commitments. <ul style="list-style-type: none"> ◦ Proposed batch 1 stocks includes HG herring and WCVI Chinook, ECVI and Mainland Sockeye, Coho • Pacific has about 40% of the countries fisheries resources. <p>Update on Pacific Herring Renewal (MSE, HG Rebuilding)</p> <p>Element 1 - MSE</p> <p>Element 2 - Fisheries management reforms (quotas, licence fees)</p> <p>Element 3 - Stock assessment program</p> <ul style="list-style-type: none"> • HG Rebuilding Plan - meet with Haida when first round of simulations are done - sometime after January. Rebuilding plan completed by 2021. • MSE update - HIAB has questions - good time to engage them on providing objectives that can be simulated. Industry needs to have consistent people attending objective meetings - HIAB MSE sub-committee. Prior to that meeting, have a RM meeting. • If there are no changes to the operating model, do not need another CSAS review. If new objectives, can be run through the existing operating model by end of summer and provided in fall science advice. • Need an MSE only planning timeline - what are we doing this fiscal and next. • RM needs to think about prioritization of objectives. Currently only ranking is conservation first. • Roger - centre of expertise for herring MSE. Include Roger on MSE meeting notes summary distribution. 	B. Spence J. Cleary

	<ul style="list-style-type: none"> • Prioritization of objectives - Industry thinks that there should be consultation on other management procedures that meet the conservation objective. • Licence fee review - owner/operator review in other regions does not apply to Pacific region. • Further in the agenda - If money available for mobile ASO/A-Tlegay pilot by December, can continue for 2019 fishery. • Note - refer to TEK as TK (this is how it is referenced in the amended FA). 	
11:40AM - 12:00PM	IFMP development planning and changes	J. Cleary B. Spence
12:00 - 1:00PM	Lunch (on your own)	
1:00 - 2:30PM	Harvest options (with direction received) for each area	All
2:30 - 3:00PM	Health Break	
2:30 - 3:00PM	2018 Stock Assessment and 2019 Forecast (SR Results)	V. Postlethwaite
3:00 - 3:45PM	First Nations consultations planning (MSE and IFMP)	All
3:45 - 4:00PM	Wrap-up and action items	All
5:00PM	Post meeting get-together	

9:00 - 9:15AM	Review of agenda and progress from Day 1	B. Spence
9:15 - 10:00AM	Licensing and operations update: <ul style="list-style-type: none"> • Licensing team • Bob is herring lead and may also do data entry. Food & Bait lined-up. Karen Jefferies does SOK. <ul style="list-style-type: none"> ○ Roe/SOK fishery - have to chase licence holders that are designated as inactive. ○ Impacts gillnet pools and selection. ○ Bob - Pro-active letter to SOK licence holders ○ Bob - Reach out to Karen to see if there is anything RM can do to help. ○ In December - knowing which areas are open, will be able to provide. 	B. Edwards V. Postlethwaite A. Neuman B. Spence

	<ul style="list-style-type: none"> ○ PICFI call-out on inventory. Figure out which ones are needed, e.g. 15 for Heiltsuk, etc... ○ F&B <ul style="list-style-type: none"> ● 1 full business day (not on weekends) ● Ask HIAB for their advice on F&B, would they still like to leave PRD as an potential option for roe selections. ● ASO - Resource Managers would have to develop the personalized letters. Get licence application form from licensing. ● Amber/Victoria - Follow-up with groundfish on process for ASO delivery. Will chat on our licensing call on Thursday. ● Options ASO letter - NOLS, e-mail or have ASO hand deliver ● License conditions (marine mammal, basking shark, seabirds) and process <ul style="list-style-type: none"> ○ Group agrees - Specific area closures will remain outlined in the COL even though provided in VO. Fishers use this as a reference. ● Fishery notices <ul style="list-style-type: none"> ○ RM - leads do up FN and issue them from grounds. ○ Make sure roe test code is consistent across fishery notices. ○ Include soundings ○ Have FN to Ops centre by 2:00pm ● Vessel stability/ TSB Miss Cory 	
10:00 - 10:15AM	<p>C&P update</p> <ul style="list-style-type: none"> ● Monte - Primary C&P contact. This is the first year with defined C&P work priorities (dedicated work plan). Herring is not a high priority but they will still be in communication with RM, if an issue arises they can be available. Monte asked to review JOT occurrence report - include a statement on weather conditions ● Powell River - Matt Conley & Ben Rahier might be available for Roe fishery. ● Amber will maintain spreadsheet of all occurrences and email an updates to Monte during fishery. ● There was discussion around the ASO occurrence report form, last year identified weather conditions as a possible field in the occurrence report form. Some things to consider - conditions that can be trained for; standard for reporting. Try to minimize subjectivity ● Share link of occurrence report tracking with group. <p>CC</p> <ul style="list-style-type: none"> ● Last year was first year that SOK was monitored by JOT - worked well ● General ● MPP platform is also available. How do area RM connect with MPP. MPP Chief/Supervisor - coordinate tasks for next 2 weeks. Contact SC 	M. Bromley

	<p>coordinator, Mike. Can let them know when fishery is opening (esp. F&B). Amy has done this for Chum.</p> <ul style="list-style-type: none"> • Action item - RM contact Mike Crottey (cc' Andrea). • Action - Steven share crab - fisheries enforcement cheat sheet. Amber develop one for herring. Emphasize safety. Things that are a concern, not a concern. • Action - PAL flights - give them an update. • Action - Andrea - bring forward to post season review, ask C&P to forward reports to RM. 	
10:15 - 10:30AM	Health Break	
10:30 - 11:00AM	<p>Expected use table and FSC license amounts</p> <ul style="list-style-type: none"> • Discussing open pond only - not typically as successful. If you remove closed ponds as an attractant, it is hit& miss. • Heiltsuk - most of there ponds are open, would likely support • Kitsoo - would not support open pond only. <p>PRD - No rights-based fishery, have not had successful commercial roe fisheries in recent years</p> <ul style="list-style-type: none"> • if allow open pond, there will be conflicts with open pond & gillnet • Close PRD? <p>CC - Rights based fishery - have a right to SOK but it is not an exclusive right.</p> <ul style="list-style-type: none"> • Is there priority access? • Are we justified in providing an opening • Kitsoo were the only ones that were successful with closed ponds (in Kitsoo Bay). • Open to rights based fishery - open ponds? <p>SOK - Typically gets some priority to TAC since they can't move around like roe.</p>	B. Spence
11:00 - 11:30AM	<p>SOK transferability</p> <ul style="list-style-type: none"> • ATP - Ann Susanuk, if no SOK, need to let her know so funds can be reallocated. • When J licences were first issued, they were made non-transferable with the intent othat the licence would revert back to DFO when the licence holder decided to retire from the commercial fishery. 	S. Groves
11:30AM - 12:00PM	<p>Plan for IHHP and HIAB – decks and staff</p> <p>Expected Use Tables:</p> <ul style="list-style-type: none"> • Action - Meet with Andrea to go over FSC allocations for SOG and WCVI. 	All

s.23

	<ul style="list-style-type: none"> • Have NC/SC meeting to discuss how communal licences are written up and issued? • Andrea to follow-up with Kent/Kevin. <p>TOR:</p> <ul style="list-style-type: none"> • Bring forward to IHHPC <p>HIAB</p> <ul style="list-style-type: none"> • Selection amount / Area • IQ proposal • What do they need from us? • What do we need from them? - Advice on application of catch caps in F&B - remind them of letters from last year and ongoing, releases, safety, selection amount, area for fishery. • Roe - Plan will include recommendation to keep the area closed, • PRD - not optimistic that there will be roe opportunity 	
12:00 - 1:00PM	Lunch (on your own)	
1:00 - 2:15PM	<p>Area specific planning/operational issues for each active fishery (Roe SN and GN, SOK, F&B, SU)</p> <ul style="list-style-type: none"> • HG • PRD (drone) - NC will explore budgets and options. • CC • WCVI (Satellite Project) -Ryan will follow-up with Jaclyn re: how it can be used. • SOG (cholera, vibrio, management platform, vessel discharge handout) <ul style="list-style-type: none"> ◦ ASO pilot - \$15K - building toward co-management ◦ Action - Talk to Greg about what was done, what could be done this year. • Management Platform <ul style="list-style-type: none"> ◦ CCG looking at other vessels and pricing options - Bryan's preference is to stay with the Canadian Shore for 1 more year. ◦ Look at putting out another bid for a management vessel. ◦ Brenda will work on securing \$70K ◦ Andrea/Amber will check-in with Jaclyn on contracting and putting out another bid for a management vessel. ◦ Schedule a SC meeting to review options, need a decision by December. <p>Brenda is going to pass a list of projects to Neil:</p> <ul style="list-style-type: none"> • \$5K for satellite project. 	All

	<ul style="list-style-type: none"> • \$15K for ASO • \$70K for management platform <p>Action - Have an internal call with science re: AFS re-profiling prioritization?</p> <ul style="list-style-type: none"> • Area staff need to coordinate a project list for herring 	
2:15 - 2:30PM	Health Break	
2:30 - 3:30PM	Area specific planning/operational issues for each active fishery (con't)	All
3:30 - 4:00PM	Wrap-up, summary of meeting, action items	All
4:00PM	Meeting adjourned	

Neuman, Amber

From: Cleary, Jaclyn
Sent: 2018-October-15 8:48 AM
To: Neuman, Amber
Subject: Fwd: Walker Rock

Categories: Red Category

Sent from my iPhone

Begin forwarded message:

From: "Thompson, Matthew" <Matthew.Thompson@dfo-mpo.gc.ca>
Date: October 15, 2018 at 8:37:58 AM PDT
To: "Cleary, Jaclyn" <Jaclyn.Cleary@dfo-mpo.gc.ca>
Subject: RE: Walker Rock

s.20(1)(b) Skipper: [REDACTED]/day
s.20(1)(c) Fuel: [REDACTED] day (but all depends on how much travelling/sounding they would do) - vessel holds 1500L diesel
Food: [REDACTED] day for 3 people
Misc: [REDACTED] day --- oil, oil filters, etc.
About [REDACTED] day roughly. She's 38' long.

-----Original Message-----

From: Cleary, Jaclyn
Sent: October-15-18 8:33 AM
To: Thompson, Matthew
Subject: Walker Rock

M

Can you send me day rate estimate for Walker Rock for use as seine mgmt platform.
Also- what is vessel length?

Thx
J

Sent from my iPhone

Neuman, Amber

From: Cleary, Jaclyn
Sent: 2018–November-19 12:55 PM
To: Neuman, Amber
Subject: Re: Procurement HUB deadline: Nov 30, 2018

great, thx.

On Nov 19, 2018, at 12:10 PM, Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca> wrote:

I talked to Bryan last week about this and he was leaning toward sticking with Canadian Shore for this year but wanted to talk to Andrea/Laura before making a final decision. I let him know about the deadline for contracting. Will let you know when I hear back from him.

s.16(2)(c)

Cheers,
Amber Neuman
Tel: (250) 756-7246 | Cell: (250) [REDACTED]

From: Cleary, Jaclyn
Sent: 2018–November-18 5:19 PM
To: Neuman, Amber
Subject: Fwd: Procurement HUB deadline: Nov 30, 2018

Hi amber,
Have you any further direction for separate contract for SoG Mgmt platform? See deadline below.

J

Begin forwarded message:

From: "Haaland, Melody" <Melody.Haaland@dfo-mpo.gc.ca>
Date: November 13, 2018 at 8:20:20 AM PST
To: DFO.R PAC Science STAR QAM / MQE ESRS Sciences PAC R.MPOO
<DFO.RPACScienceSTARQAM-MQEESSciencesPACR.MPOO@dfo-mpo.gc.ca>, DFO.R
PAC Science STAR GF / PF ESRS Sciences PAC R.MPO <DFO.RPACScienceSTARGF-PFESRSSciencesPACR.MPO@dfo-mpo.gc.ca>
Subject: FW: Procurement HUB deadline: Nov 30, 2018

REMINDER: All requirements for contracting with a targeted delivery prior to March 31, 2019 should be submitted to the Procurement Hub no later than November 30, 2018.

Depending on the duration of the services required or delivery time for goods required, an earlier submission date may be prudent.

FYI and distribution as necessary to program managers and staff that will be procuring goods and services (with a March 31, 2019 delivery date) via the DFO HUB.

http://intra.dfo-mpo.gc.ca/loop-courant/nat/2018/20181026/20181026_07_e.htm

Regards,
Melody Haaland

Administrative Assistant, Science Branch / Pacific Region - Stock Assessment
& Research Division (StAR)
Fisheries and Oceans Canada / Government of Canada
melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071

From: Volk, Judy
Sent: November-13-18 8:15 AM
To: Luch, Gloria; Haaland, Melody
Subject: FW: Procurement HUB deadline, Nov 30, 2018

FYI.....I already sent out a reminder a few weeks ago.....

Judy Volk
Branch Coordinator
Stock Assessment and Research Division (StAR)
Pacific Biological Station
voice: (250) 756-7047 facsimile/telecopier (250) 756-7053
e-mail: judy.volk@dfo-mpo.gc.ca

From: Dhillon, Reet
Sent: November-09-18 1:14 PM
To: XPAC SC ADMIN OFFICERS
Subject: Procurement HUB deadline, Nov 30, 2018

FYI and distribution as necessary to program managers and staff that will be procuring goods and services (with a March 31, 2019 delivery date) via the DFO HUB.

http://intra.dfo-mpo.gc.ca/loop-courant/nat/2018/20181026/20181026_07_e.htm

Reet Dhillon

Business Services Manager, Science Branch, Pacific Region
Tel / Tél: 250.363.6715
Fax / Télécopieur: 250.363.6310

Neuman, Amber

From: Cleary, Jaclyn
Sent: 2018–November-20 10:50 AM
To: Neuman, Amber
Subject: Re: Procurement HUB deadline: Nov 30, 2018


Ok
Is there confirmed funding?
Coding?

On Nov 20, 2018, at 10:46 AM, Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca> wrote:

FYI...we're sticking with the Canadian Shore this year.

Cheers,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) 

From: Rusch, Bryan
Sent: 2018–November-19 7:56 PM
To: Neuman, Amber
Subject: RE: Procurement HUB deadline: Nov 30, 2018

Hello Amber,

Both Andrea and Laura agree with not putting this out for bid again this year and using the Canadian Shore through the existing contract. At this point there is not enough time and I believe significant jeopardy in trying to put this out for bid again.

I've asked to confirm the funding level available this year (we had 75K last year) and will see what I get back. I expect it will be the same as last year given the likelihood that this will be the only commercial fishing area open but we will see.

Thanks,

Bryan

From: Neuman, Amber
Sent: Monday, November 19, 2018 10:09 AM
To: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>
Subject: FW: Procurement HUB deadline: Nov 30, 2018

Hi Bryan,
Did you get a chance to talk to Andrea about the management platform? Are we sticking with the Canadian Shore? Note the deadline below if we want to put a new call out for bids.

Cheers,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) [REDACTED]

From: Cleary, Jaclyn

Sent: 2018–November-18 5:19 PM

To: Neuman, Amber

Subject: Fwd: Procurement HUB deadline: Nov 30, 2018

Hi amber,

Have you any further direction for separate contract for SoG Mgmt platform? See deadline below.

J

Begin forwarded message:

From: "Haaland, Melody" <Melody.Haaland@dfo-mpo.gc.ca>

Date: November 13, 2018 at 8:20:20 AM PST

To: DFO.R PAC Science STAR QAM / MQE ESRS Sciences PAC R.MPOO

<DFO.RPACScienceSTARQAM-MQEESRSciencesPACR.MPOO@dfo-mpo.gc.ca>, DFO.R
PAC Science STAR GF / PF ESRS Sciences PAC R.MPO <[DFO.RPACScienceSTARGF-
PFESRSciencesPACR.MPO@dfo-mpo.gc.ca](mailto:DFO.RPACScienceSTARGF-PFESRSciencesPACR.MPO@dfo-mpo.gc.ca)>

Subject: FW: Procurement HUB deadline: Nov 30, 2018

REMINDER: All requirements for contracting with a targeted delivery prior to March 31, 2019 should be submitted to the Procurement Hub no later than November 30, 2018.

Depending on the duration of the services required or delivery time for goods required, an earlier submission date may be prudent.

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http://intra.dfo-mpo.gc.ca/loop-courant/nat/2018/20181026/20181026_07_e.htm

Regards,

Melody Haaland

Administrative Assistant, Science Branch / Pacific Region - Stock Assessment
& Research Division (StAR)

Fisheries and Oceans Canada / Government of Canada

melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071

From: Volk, Judy

Sent: November-13-18 8:15 AM

To: Luch, Gloria; Haaland, Melody

Subject: FW: Procurement HUB deadline, Nov 30, 2018

FYI.....I already sent out a reminder a few weeks ago.....

Judy Volk

Branch Coordinator

Stock Assessment and Research Division (StAR)

Pacific Biological Station

voice: (250) 756-7047 facsimile/telecopier (250) 756-7053

e-mail: judy.volk@dfo-mpo.gc.ca

From: Dhillon, Reet

Sent: November-09-18 1:14 PM

To: XPAC SC ADMIN OFFICERS

Subject: Procurement HUB deadline, Nov 30, 2018

FYI and distribution as necessary to program managers and staff that will be procuring goods and services (with a March 31, 2019 delivery date) via the DFO HUB.

http://intra.dfo-mpo.gc.ca/loop-courant/nat/2018/20181026/20181026_07_e.htm

Reet Dhillon

Business Services Manager, Science Branch, Pacific Region

Tel / Tél: 250.363.6715

Fax / Télécopieur: 250.363.6310

Neuman, Amber

From: Neuman, Amber
Sent: 2018–November-20 11:11 AM
To: Cleary, Jaclyn
Subject: FW: Funding and Coding - SoG Management Platform

FYI.

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) [REDACTED]

From: Spence, Brenda
Sent: 2018–November-20 11:05 AM
To: Neuman, Amber
Cc: Rusch, Bryan
Subject: Re: Funding and Coding - SoG Management Platform

Hi Amber,

The budget is Andy Thompson's, and we don't typically get approval and coding until later in the fiscal year planning cycle once they have finished 8 month review. At my last bilat with Neil Davis I flagged this with him and he is following up with Andy.

B

From: Neuman, Amber
Sent: Tuesday, November 20, 2018 10:55 AM
To: Spence, Brenda
Cc: Rusch, Bryan
Subject: Funding and Coding - SoG Management Platform

Hi Brenda,

Just following-up to see if you've received confirmation of funding and coding for the SOG management platform? Bryan confirmed yesterday that we would be sticking with the Canadian Shore contract this year. Once funding is confirmed, Jaclyn has asked for financial coding to proceed.

Thanks,

Amber Neuman

Resource Manager – Herring

South Coast Area, Resource Management Branch, Pacific Region

Fisheries and Oceans Canada | Government of Canada

Amber.Neuman@dfo-mpo.gc.ca | Tel: (250) 756-7246 | Cell: (250) [REDACTED]

Gestionnaire des Pêches - Hareng

Secteur de la Côte Sud, Gestion des ressources, Région Pacifique

Pêches et Océans Canada | Gouvernement du Canada

Amber.Neuman@dfo-mpo.gc.ca | Tél : (250) 756-7246 | Tél cell. : (250) [REDACTED]

December 3, 2018 - South Coast Herring Planning Meeting - Amber Neuman Notes

2018-December-03

8:31 AM

Record of Meeting

Time: 1-2pm

Attendees - Bryan Rusch, Ryan O'Connell, Terry Palfrey, Amber Neuman, Mike Spence

1. Strait of Georgia Roles & Responsibilities

- a. Seine Managers - Bryan & Amber
- b. Gillnet Manager - Terry
- c. Spawn Flights - No one identified yet. ACTION - Bryan following-up with Beth and Laura to see if anyone is available to coordinate SOG flight program

Note- Amy is going to be working on T'aaq-wiihak and Area 25/26 Round Tables

1. ASO Pilot. ACTION - Bryan following-up with Brenda to see if funding confirmed, follow-up with Greg Hornby/Beth to see if Greg can coordinate again this year.
2. Management Platform - confirmation that we will have money from Andy. Working off 2 year contract. Waiting for coding. ACTION - Bryan to follow-up on coding for management platform.
3. Coordinator Contract - Warren Johnny starts Dec 15

2. West Coast Roles & Responsibilities - Mike and Ryan

- a. Spawn Flights - Ryan (might cover some of the SOG)
- b. Test Charter/NTC Coordination - Mike
 - Changing dive survey program around slightly
 - ACTION - Bryan following up on spawn reconnaissance charters.
 - Science is in process of getting \$15K, RM needs to come up with \$25K, Area 23, 24, 25
 - Either an amendment to NTC agreement or a separate contract done through AFS.
- c. Maa-nulth wanted to do some herring work on south side of Barclay Sound. Spawn reconnaissance. ACTION-Bryan to see if any funding available.
- d. Training session for first nations charters - do that every year mid-January. Science usually delivers the training. ACTION- Mike to follow-up with Peter to see what needs to be done.

3. Pre-Season Meetings:

- a. **HIAB** - ACTION - Bryan following up with Greg T. on dates
 - i. Pool Captains Meeting - Late Jan/early Feb
 - ii. Charter Skippers Meeting - Late Jan/early Feb
2. **IHHPC Call**
-Wednesday, December 5, 1:30-3:30
- c. **First Nations**
 - i. Communications Coordinator Meeting - End of January. Warren coordinates as part of his contract - ACTION - Amber to touch base with Warren and find out the best time/location.

- ii. QARS meeting - Re-scheduled of January. ACTION - Amber will follow-up with Jordan to find a date that works.
 - iii. U-athluk- Feb 6
- a. **Spawn Flights Meetings - TBD**
SOG - Science \$25K, RM usually contributes ~\$10K but unsure this year
- a. Seair - Preferable for Nanaimo based staff, most experienced pilot
 - b. Corilair - If Campbell River staff flying, this is a good option. Less experienced pilot.
- West Coast - \$20K
- a. Louis - Working well. ACTION - Ryan set-up pre-season meeting (if required).
- d. **IFMP Update**
- i. Draft to be released on the Dec 6
 - ii. Roe fishery in SOG only - expect more gillnetters in SOG, Seine unlikely to change much
- e. **Licensing Process**
- No area selection, still need pool selection - likely late January.
 - Roe selection to F&B end of this week with release of draft IFMP (Dec 6 or 7)
 - Expect licences to be issued mid-Feb.
6. **Conditions of Licence**
- Look at tightening up the reporting requirements for gillnet, can't validate product until hauled in.
 - Marine mammal reporting requirements
 - ACTION - Amber review and update COL - include the marine mammal reporting - send to Bryan & Terry.
 - ACTION - Bryan and Terry review updated COL.
7. **C&P Coordination**
- ACTION - Bryan following-up with Monte, possibility of C&P on-grounds during herring fishery and potential pre-season C&P meeting.
 - ACTION - Amber offer a 1-2hr Herring 101 at C&P SOG team retreat (Jan16-18)
 - ACTION - Mike will touch base with Port Alberni C&P - keep them in the loop about charters, spawn reconnaissance, spawn flights.
8. **Other**
- Next meeting - Tuesday, Jan 29 1-4pm - Brenda, VP, Science (follow-up with Jaclyn - Jaclyn, Matt, Kristen), Monte, Jim Robson, SC team. ACTION - Amber send out an outlook placeholder.
 - ACTION - Amber send out notes from meeting
 - Portions of SOG still under emergency closure for SOK/SOB (cholera). Multi-agency meeting planned for January. On health authorities advice, we can revoke the closure.
9. **Summary of Action Items:**
- Bryan following-up with Beth and Laura to see if anyone is available to coordinate SOG flight program.
 - Bryan following-up with Brenda to see if ASO pilot funding confirmed, follow-up with Greg Hornby/Beth to see if Greg can coordinate again this year.

- Bryan to follow-up on coding for management platform.
- Bryan following up on spawn reconnaissance charters for NTC.
- Bryan following up to see if any funding available for Maa-nulth spawn recon.
- Mike to follow-up with Peter to see what needs to be done for First Nations charters training session.
- Bryan following up with Greg T. on dates for pool captain's/charter skippers meetings.
- Amber to touch base with Warren and find out the best time/location for SOG First Nations pre-season meeting.
- Amber will follow-up with Jordan to find a January date that works for QARS meeting (week of Jan 7).
- Ryan set-up pre-season meeting (if required) for WCVI spawn flights.
- Amber review and update COL - include the marine mammal reporting - send to Bryan & Terry.
- Bryan and Terry review updated COL.
- Bryan following-up with Monte, possibility of C&P on-grounds during herring fishery and potential pre-season C&P meeting.
- Amber offer a 1-2hr Herring 101 at C&P SOG team retreat (Jan16-18).
- Mike will touch base with Port Alberni C&P - keep them in the loop about charters, spawn reconnaissance, spawn flights.
- Amber send out an outlook placeholder for next meeting (Tues, Jan 29, 1-4pm).
- Amber send out notes from today's meeting.

Neuman, Amber

From: Knox, Julie
Sent: 2019-March-28 3:43 PM
To: Neuman, Amber
Subject: April 1 Herring flight PO for signature
Attachments: FNDWRR.exe.pdf

Here is the requested purchase order for signature.

Thanks,
Julie Knox

Admin Officer
South Coast Area / Pacific Region
Fisheries and Oceans Canada / Government of Canada
Julie.Knox@dfo-mpo.gc.ca / Tel: 250-756-7288

Secteur de la côte sud / Région du Pacifique
Pêches et Océans Canada / Gouvernement du Canada
Julie.Knox@dfo-mpo.gc.ca / Tél: 250-756-7288



PURCHASE ORDER

This Purchase Order is made as of the contract award date below between Her Majesty the Queen in Right of Canada (hereinafter referred to as "Her Majesty") represented by the Minister of Fisheries and Oceans (hereinafter referred to as "Fisheries and Oceans Canada") and the supplier (as named herein).

SUPPLIER – FOURNISSEUR

SEAIR SERVICES 1990 LTD.
4640 INGLIS DRIVE
RICHMOND, BC V7B 1W4
Canada

ISSUED BY - PRÉPARÉ PAR

FISHERIES MGMT-SOUTH COAST
3225 STEPHENSON POINT ROAD
NANAIMO, BC V9T 1K3

Tel: 2507567257
E-mail: JANICE.MATTU@DFO-MPO.GC.CA

COMMANDE D'ACHAT

Cette commande d'achat est faite en date d'octroi de contrat ci-dessous entre Sa Majesté la Reine du chef du Canada (ci-après appelée "Sa Majesté") représenté par le Ministre des Pêches et Océans Canada (ci-après appelé "Pêches et Océans Canada") et le Fournisseur (tel qu'indiqué dans les présentes).

IMPORTANT

The Contract No. must appear on invoices, B/L, packing lists, correspondence and outside containers.
Le No. de contrat doit être indiqué sur les factures, les connaissements, les listes d'emballage, la correspondance et à l'extérieur des contenants.

Contract No./No. de contrat. **F1582-190001**

Amend. No/No. de modif **0**

Contract Award Date/
Date d'octroi de contrat **28-MAR-2019**

Address Enquiries to - Adresser toute demande à

Tel:
E-mail:

This purchase document references Standing Offer Agreement Number /

Ce document d'achat fait référence à un numéro d'entente d'offre à commandes **E60SQ-020001/152/SQ**

SHIP TO/
EXPÉDIER À: F1582

BILL TO/
FACTURER À: DFO.invoicing-facturation.MPO@canada.ca

FISHERIES MGMT-SOUTH COAST
3225 STEPHENSON POINT ROAD
NANAIMO, BC V9T 1K3
Canada

DFO-ACCOUNTS PAYABLE/MPO-COMPTES PAYABLE
PO BOX 1901, STN A / CP 1901, STN A
FREDERICTON, NB E3B 5G4
Canada

Attn: MATTU, JANICE

Departmental Financial Codes - Codes financiers ministériel

51880-810-120-0526-52101-6

Freight Terms - Conditions pour les frais de transport

Contract End Date - Date de fin du contrat

FOB – FAR

PST No. - N° de TVP Exemption

HST/GST - TPS /
TVH

EXTRA

Estimated Total Cost - Prix total prévu

5,000.00 CAD

(Tax excluded)/(Taxe exclus)

Continued/ suite...

Canada



2	of/de	3
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PURCHASE ORDER
(Continuation sheet)

COMMANDE D'ACHAT
(suite)

P.O. No. - N° de commande
F1582-190001
Amend. No. - N° de modif.
0

The Vendor agrees to provide to Fisheries and Oceans Canada the goods or services identified at the specified prices and in accordance with all terms and conditions of this Purchase order.

Le Fournisseur accepte de fournir Pêches et Océans Canada les biens ou services identifiés dans les présentes en conformité avec les prix spécifiés et avec les modalités de cette commande d'achat.

Continued/ suite...

<i>Item no. No Article</i>	<i>Description Description</i>	<i>Delivery Date Date de livraison</i>	<i>Quantity Quantité</i>	<i>U of I U de D</i>	<i>Unit Price Prix unitaire</i>	<i>Extended Cost Prix total prévu</i>
1	Herring air charters as and when required	31-MAR-20	1	SUM-LUMP SUM/FORFA ITAIRE	5,000.00	5,000.00



PURCHASE ORDER
(Continuation sheet)

COMMANDE D'ACHAT
(suite)

P.O. No. - N° de commande	F1582-190001
Amend. No. - N° de modif.	0

The following documents form part of this Purchase Order. The supplier recognizes and agrees to all terms and conditions set out in this request, including:

Les documents ci-joints font partie intégrale de cette commande d'achat. Le Fournisseur convient et accepte tous les termes et conditions tels que décrits dans cette demande, incluant:

Continued/ suite...

FOR THE SUPPLIER - POUR LE FOURNISSEUR		
Signature	Witness - Témoin	Date
Print or type - Imprimer ou dactylographier	Position title - Titre du poste	
Signature	Witness - Témoin	Date
Print or type - Imprimer ou dactylographier	Position title - Titre du poste	

APPROVED FOR THE MINISTER - APPROUVÉ POUR LE MINISTRE		
Signature	Position title - Titre du poste	Date
Print or type - Imprimer ou dactylographier		

Neuman, Amber

From: contact <contact@seairseaplanes.com>
Sent: 2019-January-24 4:00 PM
To: Neuman, Amber
Subject: 2019 Charter rates
Attachments: DFO.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hello Amber,

Attached are the rates for 2019.

Thank you,

Peter



Seair Seaplanes Ltd.

4640 Inglis Drive, Richmond BC, V7B 1W4

www.seairseaplanes.com

contact@seairseaplanes.com | toll free 1-800-44SEAIR

local 604.273.8900 | fax 604.273.7351





Attention: Amber Neuman

Roe Herring Flight Assessment
Fisheries and Oceans Canada
3225 Stephenson Point Road,
Nanaimo, B.C.
V9T 1K3

SCHEDULE A

2019 DISCOUNTED CHARTER RATES

Aircraft Type	Maximum Passengers	Standby Time Per Hour	2019 Price Per Flight Hour \$
C-185 (Primary Aircraft)	3	\$130	\$999
Beaver (Back-up Aircraft)	5	\$130	\$999
Turbine Beaver (If Needed)	7	\$160	\$1,822
Caravan (If Needed)	9	\$160	\$2,584

Neuman, Amber

From: Mattu, Janice
Sent: 2019-January-31 9:29 AM
To: Neuman, Amber
Subject: Corilair

Hi Amber,

I did find their rates but I find them confusing when compared to their invoice – they appear to be giving a better rate than what is in the standing offer catalogue ;

<http://aircharter.pwgsc.gc.ca/index.cfm?fuseaction=catalogue.print&lang=e>

Just wanted to send this in case it helps!

Janice

Supply Period: **December 1, 2018 to May 31, 2019**

Standing Offer No: **E60SQ-020001/060/SQ**

Updated: **2018-10-11 17:03:46.0**

Record **13** of **130**

Legal Name of Carrier: **CORILAIR CHARTERS LIMITED ()**

Domestic Licence: **Yes**, International Licence: **Yes**

Basis of Payment (Fixed Wing Aircraft) for CESSNA 206

Base of Operations: **CAMPBELL RIVER** Province/Territory: **BC**

AIRCRAFT AND RATES:

- Aircraft Model: **CESSNA 206**
- VFR/IFR : **VFR**
- Wing Type: **High; Not Pressurized**
- Number of Passengers Excluding Pilot(s): **4** (0 indicates cargo)
- Number of Engines: **1**
- Landing Gear: **Floats**

- **All prices and rates below are FIRM, exclude fuel but include lubricants (GST/HST extra).**

- Rate per Hour of Air Time: **\$807.25**
- DISCOUNTS: These discounts apply on the above rate regardless of the Landing Gear type.
 - **\$0.00** /hour if **0.00** hours are flown within **0.0** consecutive days.
 - **\$0.00** /hour if **0.00** hours are flown within **0.0** consecutive days.
 - **\$0.00** /hour if **0.00** hours are flown within the Supply Period.
- Rate per Statute Mile: **\$6.72**
- DISCOUNTS: These discounts apply on the above rate regardless of the Landing Gear type.
 - **\$ 0.00** /mile if **0.0** miles are flown within **0.0** consecutive days.
 - **\$ 0.00** /mile if **0.0** miles are flown within **0.0** consecutive days.

- **\$ 0.00 /mile if 0.0 miles are flown within the Supply Period.**
- Off-Season Rate per Hour of Air Time: **\$0.00**
- Off-Season Rate per Statute Mile: **\$ 0.00**
- Off-Season Period (day/month): from to inclusive.
- Minimum Charge per Flight: **\$190.00**
- Detention Free Time: **0.00** hour(s) free for every hour flown up to **0.00** hour(s) free per day.
- Detention Charge per Hour: **\$150.00**
- Detention Charge per Day: **\$1,500.00**
- Number of Free Landings per Charter INCLUDING Final Landing: **1 Final**
- Charge per Additional Landing: **\$75.00**
- Cruise Speed (mph): **120.00**
- Estimated Fuel Consumption (litres/hour): **70.000**
- Estimated Fuel Consumption (litres/mile): **0.580**
- Maximum Payload Capacity: **395.00** kilograms (KG) with minimum fuel on board.
- Air Ambulance/Medevac: **n**
- Air Ambulance/Medevac services and charges (included in rate if no charge listed):
- Cancellation Condition: Firm Percentage of **50.0 %**
- Equipment and Services:
 - co-pilot: **included**
 - work table: **not included**
 - loran C: **not included**
 - GPS: **included**
 - raft *: **not included**
 - intercom for each passenger: **included**
 - altimeter radar: **not included**
 - weather radar: **not included**
 - side cargo door: **not included**
 - sat com (voice and data): **not included**
 - catering: **not included**
 - palletized cargo: **not included**
 - combi configuration: **not included**
 - web-accessible GPS tracking: **not included**
 - fire arms protection: **not included**

* as defined in the Canadian Aviation Regulations

- Other Available Equipment and Services (included in rate if no charge listed):

AIRCRAFT LATITUDE TECH TRACKING SYSTEM EQUIPPED AND MONITORED-NO CHARGE. AIRCRAFT FISHERIES AND FORESTRY RADIO EQUIPPED-NO CHARGE.

- Notes:

Supply Period: **December 1, 2018 to May 31, 2019**

Standing Offer No: **E60SQ-020001/060/SQ**

Updated: **2018-10-11 17:05:22.0**

Record **14** of **130**

Legal Name of Carrier: **CORILAIR CHARTERS LIMITED ()**

Domestic Licence: **Yes**, International Licence: **Yes**

Basis of Payment (Fixed Wing Aircraft) for DEHAVILLAND DHC-2 BEAVER

Base of Operations: **CAMPBELL RIVER** Province/Territory: **BC**

AIRCRAFT AND RATES:

- Aircraft Model: **DEHAVILLAND DHC-2 BEAVER**
- VFR/IFR : **VFR**
- Wing Type: **High; Not Pressurized**
- Number of Passengers Excluding Pilot(s): **6** (0 indicates cargo)
- Number of Engines: **1**
- Landing Gear: **Floats**

- **All prices and rates below are FIRM, exclude fuel but include lubricants (GST/HST extra).**

- Rate per Hour of Air Time: **\$940.84**
- DISCOUNTS: These discounts apply on the above rate regardless of the Landing Gear type.
 - **\$0.00** /hour if **0.00** hours are flown within **0.0** consecutive days.
 - **\$0.00** /hour if **0.00** hours are flown within **0.0** consecutive days.
 - **\$0.00** /hour if **0.00** hours are flown within the Supply Period.
- Rate per Statute Mile: **\$8.11**
- DISCOUNTS: These discounts apply on the above rate regardless of the Landing Gear type.
 - **\$ 0.00** /mile if **0.0** miles are flown within **0.0** consecutive days.
 - **\$ 0.00** /mile if **0.0** miles are flown within **0.0** consecutive days.
 - **\$ 0.00** /mile if **0.0** miles are flown within the Supply Period.
- Off-Season Rate per Hour of Air Time: **\$0.00**
- Off-Season Rate per Statute Mile: **\$ 0.00**
- Off-Season Period (day/month): from to inclusive.
- Minimum Charge per Flight: **\$233.94**
- Detention Free Time: **0.00** hour(s) free for every hour flown up to **0.00** hour(s) free per day.
- Detention Charge per Hour: **\$180.00**
- Detention Charge per Day: **\$1,800.00**
- Number of Free Landings per Charter INCLUDING Final Landing: **1 Final**
- Charge per Additional Landing: **\$75.00**
- Cruise Speed (mph): **110.00**
- Estimated Fuel Consumption (litres/hour): **91.000**
- Estimated Fuel Consumption (litres/mile): **0.820**
- Maximum Payload Capacity: **636.00** kilograms (KG) with minimum fuel on board.
- Air Ambulance/Medevac: **n**
- Air Ambulance/Medevac services and charges (included in rate if no charge listed):
- Cancellation Condition: Firm Percentage of **50.0 %**
- Equipment and Services:
 - co-pilot: **included**
 - work table: **not included**
 - loran C: **not included**
 - GPS: **included**

- raft *: **not included**
- intercom for each passenger: **included**
- altimeter radar: **not included**
- weather radar: **not included**
- side cargo door: **not included**
- sat com (voice and data): **not included**
- catering: **not included**
- palletized cargo: **not included**
- combi configuration: **not included**
- web-accessible GPS tracking: **not included**
- fire arms protection: **not included**

* as defined in the Canadian Aviation Regulations

- Other Available Equipment and Services (included in rate if no charge listed):

**AIRCRAFT FISHERIES AND FORESTRY RADIO EQUIPPED-NO CHARGE. AIRCRAFT
LATITUDE TECHNOLOGIES TRACKING SYSTEM EQUIPPED AND MONITORED-NO
CHARGE.**

- Notes:

Janice Mattu

Administrative Officer, Resource Management
Fisheries and Oceans Canada / Pêches et Océans Canada
South Coast Area / Secteur de la Côte Sud
3225 Stephenson Point Road / 3225 rue Stephenson Pt.
Nanaimo, BC V9T 1K3 / Nanaimo, (C.-B.) V9T 1K3
Tel: (250) 756-7257

Neuman, Amber

From: Peter Clarke <peter@seairseaplanes.com>
Sent: 2019-February-05 4:28 PM
To: Neuman, Amber
Cc: Terry Hiebert; Rusch, Bryan; Palfrey, Terrence; Thompson, Matthew
Subject: RE: Herring Spawn Overflights

Hello Amber

Yes, Feb 19th is good to meet at the Seair Nanaimo Base. Can we make it at 10 am.

Also Yes, for the flights to start on Feb 20th. Plane and Pilot are all set to go on your request from the 20th and on. Let us know later on what time works best for you to Depart on the 20th.

Best Regards

Peter



Peter Clarke | President

Seair Seaplanes
4640 Inglis Drive, Richmond, B.C.
Canada V7B 1W4
seairseaplanes.com
peter@seairseaplanes.com
toll free 1.800.447.3247
direct line 604.279.2409
cell 604.328.6700

From: Neuman, Amber [mailto:Amber.Neuman@dfo-mpo.gc.ca]
Sent: Tuesday, February 05, 2019 3:20 PM
To: Peter Clarke <peter@seairseaplanes.com>
Cc: Terry Hiebert <terry@seairseaplanes.com>; Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Palfrey, Terrence <Terrence.Palfrey@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Subject: RE: Herring Spawn Overflights

Hi Peter,

If it still works for you, let's plan to have our pre-season meeting on Tuesday, Feb 19th so that Terry can participate. Does 9:30am work for you folks?

We are planning on having the first flight around Feb 20 (weather dependent). Will that still work? It doesn't leave a lot of room between pre-season planning and flying but I think that's okay as the program this year should be fairly similar to previous years.

If you do need anything from us between now and then, please let me know.

Cheers,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) [REDACTED]

From: Neuman, Amber

Sent: 2019–February-01 3:11 PM

To: 'Peter Clarke' <peter@seairseaplanes.com>

Cc: Terry Hiebert <terry@seairseaplanes.com>; Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Palfrey, Terrence <Terrence.Palfrey@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>

Subject: RE: Herring Spawn Overflights

Thanks for being so flexible. There are a few other meetings that are up in the air right now that might conflict with the proposed times. I'll wait until the dust settles and send out a meeting request early next week.

Have a great weekend!

Cheers,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) [REDACTED]

From: Peter Clarke <peter@seairseaplanes.com>

Sent: 2019–February-01 3:08 PM

To: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>

Cc: Terry Hiebert <terry@seairseaplanes.com>; Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Palfrey, Terrence <Terrence.Palfrey@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>

Subject: RE: Herring Spawn Overflights

Hello Amber

The 12th, 19th or 20th of Feb. are all good with me to meet at Seair Nanaimo Base. I suggest meet at 10am on one of those days, let me know which of these days works best.

Peter



Peter Clarke | President

Seair Seaplanes

4640 Inglis Drive, Richmond, B.C.

Canada V7B 1W4

seairseaplanes.com

peter@seairseaplanes.com

toll free 1.800.447.3247

direct line 604.279.2409

cell 604.328.6700

From: Neuman, Amber [mailto:Amber.Neuman@dfo-mpo.gc.ca]
Sent: Friday, February 01, 2019 2:39 PM
To: Peter Clarke <peter@seairseaplanes.com>
Cc: Terry Hiebert <terry@seairseaplanes.com>; Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Palfrey, Terrence <Terrence.Palfrey@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Subject: RE: Herring Spawn Overflights

Hi all,

I just heard from Terry H that he's away until Feb 18. Do we want to wait until he returns? We could potentially meet Feb 19 or 20, it's a little late but it would be nice to have the pilot with us. Otherwise, I would suggest we plan to meet on the morning of Feb 12 if that works for everyone else. Let me know.

Cheers,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) [REDACTED]

From: Neuman, Amber
Sent: 2019–February-01 11:49 AM
To: 'Peter Clarke' <peter@seairseaplanes.com>
Cc: 'terry@seairseaplanes.com' <terry@seairseaplanes.com>; Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Palfrey, Terrence <Terrence.Palfrey@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>
Subject: RE: Herring Spawn Overflights

Hi Peter,

I just wanted to give you a heads-up that we are starting to work on the call-ups for our spawn flight program. Right now it looks like our budget for Sear flying out of Nanaimo will be around \$20K. We will likely have the first flight around Feb 20 with more regular flights starting about a week later or once we have reports of spawn.

For the time being, Matt Thompson and myself will be the flight program contacts, another coordinator may be identified prior to the start of the season. I've been given the go-ahead to set-up a pre-season meeting with you folks to go over details of the program. Would you be available to meet sometime in the morning either on Tuesday, Feb 12 or Thursday, Feb 14?

Cheers,

Amber Neuman

Resource Manager – Herring

South Coast Area, Resource Management Branch, Pacific Region

Fisheries and Oceans Canada | Government of Canada

Amber.Neuman@dfo-mpo.gc.ca | Tel: (250) 756-7246 | Cell: (250) [REDACTED]

Gestionnaire des Pêches - Hareng

Secteur de la Côte Sud, Gestion des ressources, Région Pacifique


Pêches et Océans Canada | Gouvernement du Canada

Amber.Neuman@dfo-mpo.gc.ca | Tél : (250) 756-7246 | Tél cell. : (250) [REDACTED]

From: Neuman, Amber
Sent: 2019–January-24 3:03 PM
To: 'Peter Clarke' <peter@seairseaplanes.com>
Subject: RE: Herring Spawn Overflights

Thanks Peter. I hope to have a better idea of our plans and budgets later next week and will touch base about setting up a pre-season meeting then.

Cheers,

Amber Neuman
Tel: (250) 756-7246 | Cell: (250) 

s.16(2)(c)

From: Peter Clarke <peter@seairseaplanes.com>
Sent: 2019–January-24 2:58 PM
To: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Subject: RE: Herring Spawn Overflights

Hello Amber

Great to hear from you, Yes we are very much interested in doing the over flights on the Herring Season again for DFO. The same Senior Pilots and same Seaplane are available for the Herring Season both for advanced Flight Bookings and or Short Notice Flight Bookings.
I will have Seair Flight Dispatch send you a updated 2019 Discounted Flight Per Hour Charge for this upcoming Season for the Cessna 185 seaplane (the aircraft we normally use for the over flights). Our other Seaplanes will be also Price listed but they are there only for back-up or additional Passengers are needed to fly.

Kind Regards
Peter



Peter Clarke | President
Seair Seaplanes
4640 Inglis Drive, Richmond, B.C.
Canada V7B 1W4
seairseaplanes.com
peter@seairseaplanes.com
toll free 1.800.447.3247
direct line 604.279.2409
cell 604.328.6700

From: Neuman, Amber [<mailto:Amber.Neuman@dfo-mpo.gc.ca>]

Sent: Thursday, January 24, 2019 1:12 PM

To: Peter Clarke <peter@seairseaplanes.com>

Subject: Herring Spawn Overflights

Hi Peter,

The herring season is fast approaching and I just wanted to touch base to enquiring if Seair is still able to do the Herring over flights as we have done in the past years. Having a dedicated pilot and some short notice flight requests. We are still finalizing out budgets, but I just want to confirm availability, as well as your current rates.

Once we have confirmation on our budget and personnel, I will set up a meeting Seair, likely in mid-Feb.

Cheers,

Amber Neuman

Resource Manager – Herring

South Coast Area, Resource Management Branch, Pacific Region

Fisheries and Oceans Canada | Government of Canada

Amber.Neuman@dfo-mpo.gc.ca | Tel: (250) 756-7246 | Cell: (250) [REDACTED]

Gestionnaire des Pêches - Hareng

Secteur de la Côte Sud, Gestion des ressources, Région Pacifique

Pêches et Océans Canada | Gouvernement du Canada

Amber.Neuman@dfo-mpo.gc.ca | Tél : (250) 756-7246 | Tél cell. : (250) [REDACTED]

s.16(2)(c)

Neuman, Amber

From: Neuman, Amber
Sent: 2019-February-05 3:51 PM
To: Corilair
Cc: Bukta, Christine; Hornby, Greg; Thompson, Matthew; Rusch, Bryan
Subject: Herring Spawn Overflights - Corilair - Campbell River

Hi Mike,

It was nice talking to you today. Hopefully I can sort out my IT issues and be able to receive your emails! As discussed, there has been (or will be soon) a call-up against the Corilair standing offer for up to \$5000 to conduct herring spawn flights from Campbell River. Right now our personnel in Campbell River are just on stand-by in case no one is available to fly from Nanaimo. If needed, Greg Hornby or Christine Bukta may be contacting you on short notice to set-up flights between approx.. Feb 25-Mar 15. Thank you for your flexibility and willingness to accommodate. Feel free to contact me if you have any questions.

Sincerely,

Amber Neuman

Resource Manager – Herring

South Coast Area, Resource Management Branch, Pacific Region

Fisheries and Oceans Canada | Government of Canada

Amber.Neuman@dfo-mpo.gc.ca | Tel: (250) 756-7246 | Cell: (250) [REDACTED]

s.16(2)(c)

Gestionnaire des Pêches - Hareng

Secteur de la Côte Sud, Gestion des ressources, Région Pacifique

Pêches et Océans Canada | Gouvernement du Canada

Amber.Neuman@dfo-mpo.gc.ca | Tél : (250) 756-7246 | Tél cell. : (250) [REDACTED]

Neuman, Amber

From: operations <ops@corilair.com>
Sent: 2019-February-19 1:44 PM
To: Neuman, Amber
Cc: Bukta, Christine; Hornby, Greg; Pearce, Stewart; Haaland, Melody
Subject: RE: Purchase Order - Corilair Spawn Flights
Attachments: herring2019.pdf

Attached as requested

Mike

From: Neuman, Amber [mailto:Amber.Neuman@dfo-mpo.gc.ca]
Sent: Tuesday, February 19, 2019 1:28 PM
To: Corilair
Cc: Bukta, Christine; Hornby, Greg; Pearce, Stewart; Haaland, Melody
Subject: Purchase Order - Corilair Spawn Flights

Hi Mike,

I have attached the Purchase Order that will be used to cover potential herring spawn flights out of Campbell River. Can you please sign page 3 as the Supplier and return signed copies to Melody Haaland & Stewart Pearce (cc'd)?

Please note, all invoices are to be sent to Melody Haaland and cc' Stewart Pearce, including the contract number on the invoice for ease of tracking.

If we require spawn flights from Campbell River either Christine Bukta or Greg Hornby will be in contact to make arrangements.

Please let me know if you have any questions. I have sent a request to IT to see why your email has been blocked from my account but I have not heard back yet. I am hoping this issue is isolated to my account but if you have any issues sending the signed copy of the Purchase Order to Melody and Stewart, give me a call.

Thanks,

Amber Neuman

Resource Manager – Herring
South Coast Area, Resource Management Branch, Pacific Region
Fisheries and Oceans Canada | Government of Canada
Amber.Neuman@dfo-mpo.gc.ca | Tel: (250) 756-7246 | Cell: (250) [REDACTED]

Gestionnaire des Pêches - Hareng
Secteur de la Côte Sud, Gestion des ressources, Région Pacifique
Pêches et Océans Canada | Gouvernement du Canada
Amber.Neuman@dfo-mpo.gc.ca | Tél : (250) 756-7246 | Tél cell. : (250) [REDACTED]

s.16(2)(c)



PURCHASE ORDER
(Continuation sheet)

COMMANDE D'ACHAT
(suite)

P.O. No. - N° de commande

F1582-180024

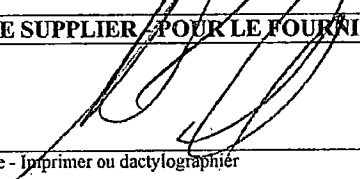

Amend. No. - N° de modif.

0

The following documents form part of this Purchase Order. The supplier recognizes and agrees to all terms and conditions set out in this request, including:

Les documents ci-joints font partie intégrale de cette commande d'achat. Le Fournisseur convient et accepte tous les termes et conditions tels que décrits dans cette demande, incluant:

Continued/ suite...

FOR THE SUPPLIER - POUR LE FOURNISSEUR		
Signature	Witness - Témoin	Date
		Feb 19/19
Print or type - Imprimer ou dactylographier	Position title - Titre du poste	
Signature	Witness - Témoin	Date
Print or type - Imprimer ou dactylographier	Position title - Titre du poste	
APPROVED FOR THE MINISTER - APPROUVÉ POUR LE MINISTRE		
Signature	Position title - Titre du poste	Date
Print or type - Imprimer ou dactylographier		

Neuman, Amber

From: Neuman, Amber
Sent: 2019–February–19 2:56 PM
To: Rusch, Bryan; Palfrey, Terrence; O'Connell, Ryan; Spence, Michael; Spence, Brenda; Postlethwaite, Victoria; Cleary, Jaclyn; Thompson, Matthew; Daniel, Kristen; Bromley, Monte; Mattu, Janice; Hornby, Greg; Bukta, Christine; Watkins, Erika; Ganton, Amy; Kelly, Gerry; Spencer, Kent; Saraga, Rachel K; Joe, Jonathan; Conley, Kevin; Preston, Paul
Subject: SCA Herring Pre-Season Meeting - Summary
Attachments: Jan 31, 2019-SCA Herring Planning Meeting-RoM.docx; Draft-Roe Herring Flight Assessments-2019v.Feb4.doc

Hi Folks,

Sorry for the delay, please find attached the meeting summary from the SCA pre-season planning meeting on Jan 31. Below is a list of action items, many of which have already been addressed:

- **Bryan** will follow-up to confirm SOG flight coordination – completed – flight coordinator is Stewart Pearce.
- **Amber** - Set-up preseason meeting with Seair. – completed – Feb 19
- **Stewart** – Send out request for expression of interest to participate in SOG spawn flights - Resource Management, Warren Johnny (First Nations) and Monte Bromley (C&P).
- **Ryan** - Send out request for expression of interest to participate in WCVI spawn flights to Resource Management, First Nations, Port Alberni C&P.
- **Amber** update spawn flight procedures.
- **Ryan** will follow-up with Paul to see if he has additional funds for flights.
- **Ryan** to follow-up with Louis to make sure invoices are legible.
- **Ryan / Stewart** – Ensure invoices are sent directly to science admin (Melody Halland), cc' flight program coordinator.
- **Bryan & Greg T** - Developing guidelines for industry test vessels.
- **Kristen** - test gear available on the dock by Feb 15.
- **Matt** - Contact for dive gear
- **Amber/RM** – Continue working with licensing to get licence eligibility holders in scope. Provide PFLU with final quota calculations.
- **Terry/Brenda** review & finalize pool rep reporting requirements in gillnet COL – communicate with regs. - Completed
- **Amber** - Follow-up with Regs on status of CoL and ensure submitted to PFLU prior to licence issuance – Completed
- **Amber** – Coordinate updates for Area resource lists. Distribute to RM/Industry - Completed
- **Everyone** - IMAWG Spawn Flight Poster – distribute as appropriate.
- **Bryan** lead on-grounds manager, will coordinate start of Management Platform and test vessel.
- **Amber** - Update Email distribution – External/Spawn Flights
- **Bryan** - Update txt distribution
- **Amber** - Update Fishery Notices/Radio Updates with aquaculture wording
- **Amber** – Coordinate MARS fish pick-up
- **Matt/Mike** - Follow-up on the FN contracts that are in place.
- **Mike** - directing FN charters - List of volunteers; phone First Nations pre-season to make plans; send updates to Fishery managers (get contacts from Kevin C).
- **Bryan** -send A27 the contacts to Mike.
- **Mike** - follow-up with A27 to see if they are planning to fish.
- **Brenda** – set-up weekly calls in-season calls.
- **Bryan** – Follow-up with Allan Moore (CCG) regarding management platform for next year.
- **Amber/Bryan** - Send letter to DND Nanoose

Thanks all for your contributions! Let me know if I've missed anything.

Cheers,

Amber Neuman

Resource Manager – Herring

South Coast Area, Resource Management Branch, Pacific Region

Fisheries and Oceans Canada | Government of Canada

Amber.Neuman@dfo-mpo.gc.ca | Tel: (250) 756-7246 | Cell: (250) [REDACTED]

Gestionnaire des Pêches - Hareng

Secteur de la Côte Sud, Gestion des ressources, Région Pacifique

Pêches et Océans Canada | Gouvernement du Canada

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SCA Pre-Season Herring Planning Meeting 2019

Date	Jan 31, 2019
Time	1:00-3:30pm
Location:	Whitmore Boardroom, Nanaimo; Conference Call 1-877-413-4790 # [REDACTED]
Meeting:	DFO South Coast Herring Planning Meeting
Attendee's	<p>Amber Neuman – RM SOG Brenda Spence – RM RHQ Victoria Postlethwaite – RM RHQ Ryan O'Connell – RM WCVI Mike Spence – RM WCVI Terry Palfrey – RM SOG (called-in) Bryan Rusch – RM SOG / WCVI Matt Thompson - Science Kristen Daniel - Science Janice Mattu – RM SCA Christine Bukta (called-in) – RM Campbell River Greg Hornby (called-in) – RM Campbell River</p>
Meeting Objective	Scope 2019 SCA herring resources, issues, and contingency plans
Agenda Items:	<p>1) Science Program Update: (Science Lead) HCRS Contract, Sampling, Test, and</p> <p>a) Spawn Overflights:</p> <p>i) SOG Lead and spotters, flight company, budget</p> <ul style="list-style-type: none"> Budget \$25K. In previous years RM has contributed ~\$10K to flight program. Unlikely that RM will have funds to supplement flight program this year. This will be a considerable budget reduction from previous years. Program coordinator need to consider spacing out flights to extend program. Seair (Nanaimo) - Cessna 185 - 2019 - \$999/hr (2018 - \$965.08/hr) <ul style="list-style-type: none"> 12 Flights - Est. \$1575/flight (1.5 hr) = \$18,900 Corilair (Campbell River) - Cessna 206 (otter?)- 2019 \$807.25/hr + fuel (Cessna 185 2018 - \$611/hr + fuel @ \$1.36/L?) <ul style="list-style-type: none"> 5 Flights - Est. \$1120/flight (1.5 hr) = \$5,600 First flight ~Feb 20 (Wednesday), second flight ~Feb 25 (Monday) or at first report of spawn, then flying every other day would take us to end of March. More frequent flights may be possible if additional funds become available. SCA, RHQ will be looking for additional funds. ACTION - Bryan will follow-up to confirm flight coordination. If a dedicated flight program coordinator is not identified, Matt can coordinate for first couple of weeks and Amber can take over when off the Management Platform if necessary. Jaclyn, Matt T & Matt G - will be able to fly for science.

- Amber can fly when not on management platform.
- Greg and Christine will be on stand-by to do a couple flights from Campbell River.
- Ryan may also be able to do some flights from Nanaimo.
- Majority of flights from Nanaimo.
- All invoices will be sent to Melody in science to pay, coordinator will also receive a copy of invoice for budget/program tracking.
- If funds become available from SCA, Janice will help with call-up and pay invoices.
- ACTION - Amber- Set-up preseason meeting with Seair.

Corilair 2018			Seair 2018		
Total Cost	Number of flights	% of budget	Total Cost	Number of flights	% of budget
\$ 7,489.27	6	22%	\$ 27,053.80	17	78

Year	Total Cost	Number of flights	After March 31	Flight start date
2018	\$ 34,543.07	23	2	20-Feb
2017	\$ 36,220.80	21	3 flights	21-Feb
2016	\$ 35,822.50	27	4 flights	22-Feb
2015	\$ 41,698.80	28	5 flights	23-Feb
2014	\$ 29,675.12	24	0	28-Feb
2013	\$ 22,061.08	19	0	27-Feb
2012	\$ 24,427.82	19	1 flight	04-Mar
2011	\$ 25,806.90	24	3 flights	03-Mar
2010	\$ 27,100.20	25	1 flight	26-Feb
2009	\$ 16,078.48	19	0	26-Feb

b) Other staff/non staff on flights

- First few flights will be needed for training purposes for new coordinator.
- Organized through flight coordinator.
 - First Nations – Coordinated through Warren Johnny
 - C&P – Coordinated through Monte
 - RM – Coordinated through flight coordinator

ACTION – Flight Coordinator - Send out request for expression of interest for spawn flights.

c) **Spawn Flight Procedures**

NEW 2019 – PUBLIC HEALTH AND SHELLFISH AQUACULTURE

The presence and potential discharges from the roe herring fleet in close proximity to shellfish harvest areas poses potentially serious health risks for shellfish consumers. DFO has committed to assisting Environment and Climate Change Canada in assessing herring vessel congregations that may trigger precautionary shellfish harvest closures under the Canadian Shellfish Sanitation Program (CSSP). When flights take place over identified key areas, those conducting spawn flights will be required to take photos of those areas and submit a brief report to shellfish aquaculture daily, who will collate information for DFO and report to ECCC. Key Shellfish Aquaculture Harvest Areas:

- Deep Bay
- Fanny Bay
- Henry Bay
- Union Bay

Information be provided to shellfish.aquaculture@dfo-mpo.gc.ca

- Date/Time of flight
- Photos of key areas
- Contact information of the person flying

ACTION – Amber update spawn flight procedures.

d) **WCVI: Lead and spotters, flight company, budget**

- Ryan is doing flights - Louise with West Coast Wild
- 20K budget
- Seats available if anyone wants to fly - contact Ryan
- Would be good to get Amy and new C&P supervisor on flights
- Invoices to Melody in Science (as for SOG).
- ACTION - Ryan will follow-up with Paul to see if he has additional funds for flights.
- ACTION - Ryan to follow-up with Louis to make sure invoices are legible.

e) **Billing: Any changes for 2019.**

- Invoices to be sent directly to science admin, cc' flight program coordinator.

f) **Dive Survey**

g) **HCRS Coastwide Sci Lic**

- Licence approved/valid

h) **Contract Update: Industry test vessel program, biological sample collection**

- Greg will send science an update on industry test vessels.

ACTION - Bryan & Greg - Developing guidelines for industry test vessels.

i) **Vessel gear**

ACTION – Kristen will have test gear available on the dock by Feb 15.

	<ul style="list-style-type: none"> • Contact Science for dive gear <p>j) Spawn Survey: Dive charters</p> <ul style="list-style-type: none"> • Increased coverage on WCVI because of recent spawn. Took a few days from CC. • Seal bombs - science provides them some in SOG, CC, WCVI. Vessel master has to record their use. • Matt will try to go out on Pachena-WCVI, Kitkatla - Royal Pride, SOG-A-Tlegay (training). <p>2) Overview of 2019 Commercial Fisheries: SOG SN and GN quotas, Area 27 SOK.</p> <p>a) Food and Bait in season update</p> <ul style="list-style-type: none"> • Total validated catch - 6,930.9 (est. 110 tons unvalidated) • Total validated catch from Subarea 29-5 (4,000 ton catch cap) - 2,311.2 tons (no fishing in this area since Jan 8, error in validation report has been corrected in this updated number). • Total TAC to date - 6,000 tons initial TAC + 1,550.9 tons from transfers from roe (39 @ 39.7658 tons/licence) = 7,550.9 tons • Current estimated TAC remaining - 510 tons (will be adjusted if there are additional roe transfers) • Reports of 3 large bodies of fish - off Qualicum (staying too deep to fish), Nanoose & Nanaimo. Seems to be lots of movement. Some fish still further south but area hasn't been scouted for a few weeks. • No feed in the fish. Average fish size variable from 16 cm - 19cm. There was an anomaly on Monday night with 14 cm fish but another set in the same area on same night had 19cm average. First sets seem to have smaller averages due to sea lion impacts. • Roe present but not mature. • ACTION – Amber – Post-season follow-up with JOT on release definition in ASO manuals and in Conditions of Licence. Release only after the pumping has commenced and has to be the result of an action the fisher has taken (e.g. intentional release). Will change to a minor occurrence for occurrence where fish swam over the cork line. Review other releases to make sure they warranted "major" release occurrence. • Can JOT provide observer statements to vessel master/companies? RM - Can provide vessel master/licence eligibility holder with copies of reports. Vessel master can provide it to the companies. Follow-up discussion with C&P - Nothing obligating or prohibiting JOT from providing reports. It is at JOT's discretion, however, understand that it may create awkward position for ASO. DFO provide support to JOT's decision. <p>b) Commercial Fishery Quotas</p> <ul style="list-style-type: none"> • Presented expected use table and updated quota calculations. <p>c) Licensing update (NOLS, F&B, Pool designations)</p> <ul style="list-style-type: none"> • About 97% HG fees paid, HS is about 85% <p>Jan 31: Roe fee payment deadline</p>
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	<p>Process for getting licences into scope (fee payment, pool selection):</p> <ul style="list-style-type: none"> ○ Bob working on fees that are outstanding - will send another email to outstanding accounts on Friday. ○ Next week - Bob will send out a notification out to anybody that has not pooled. ○ Amber send Bob list of pool captains/company reps contacts. Bob will send these contacts a list of unpaid licences early next week. ○ For licences that have not paid/pooled by mid-next week will have to start calling ○ On call next week distribute who will call which group/licence holder (spread out among licensing, RM) <ul style="list-style-type: none"> • Talk about how we will message this - once contact is made refer to Bob for licensing assistance. • Victoria will follow-up with Bob about the Doug Larden licences. <p>Feb 8: Col approved and provided to PFLU</p> <ul style="list-style-type: none"> ○ ACTION - Amber - Follow-up with Regs on status, cc' Brenda (send copy of LC for roe gillnet/seine) <p>Feb 13: Pool designations complete</p> <ul style="list-style-type: none"> ○ PFLU Fishery notice – pool designations complete – update on final numbers and quota <ul style="list-style-type: none"> • Wal-can & hub city will have pools again this year (also participated last year). <p>Feb 15: Roe licence issuance complete</p> <ul style="list-style-type: none"> ○ PFLU Fishery Notice - licence issuance, email also sent to licence holders <p>3) SOG Herring</p> <p>a) Management Resources</p> <ul style="list-style-type: none"> • ACTION - Amber - update and send to group with revisions • Considerations for distributing IMAWG spawn flyer/FB page <ul style="list-style-type: none"> ○ VP - Send to FN emails with IFMP approval ○ Matt/Amber - Update the flight list ○ Amber - Send out to distribution <p>b) Management Platform</p> <ul style="list-style-type: none"> • Canadian Shore – 15 days - Start Feb 25 (Flexible Start). <p>c) Test Vessel</p> <ul style="list-style-type: none"> • Denman Isle – 27 Days – Start Feb 20 (Flexible Start) <p>d) Plan DFO on Management Platform/Test Vessel</p> <ul style="list-style-type: none"> • Amber coordinate staff on management platform/test vessel <ul style="list-style-type: none"> ○ Ryan - both (not on Feb 25/26), late Feb better ○ Amy? ○ Brad L? - shoulder season, 1 night, test vessel only ○ Neil Davis? - management platform - first week in March ○ David Didluck? - Regional Director of Reconciliation and Partnerships
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	<ul style="list-style-type: none"> ○ Potential RHQ ● Transport - Greg H offered to do this with RM vessel <p>e) Management seines:</p> <ul style="list-style-type: none"> ● Bryan, Amber ● Bryan lead on-grounds manager, will coordinate start of Management Platform and test vessel <p>i) Roles & Responsibilities</p> <ul style="list-style-type: none"> ● Update Email distribution - Amber ● Update txt distribution - Bryan ● Update FN with aquaculture wording ● MARS fish <p>ii) Issues: Set releases, C&P on grounds support, hail team and vessel, catch tracking, JOT ASO, length of fishing, peripheral areas, aquaculture considerations, Denman/Hornby Island Conservationist considerations</p> <ul style="list-style-type: none"> ● Meeting with Denman/Hornby residents - Feb 18 or 19. SCA support - Bryan. Science will also be there and potentially HIAB. Jaclyn is only available on the morning of the 18th. ● Remind them that we are flying. <p>f) Management Gillnet: Terry</p> <p>i) COL</p> <ul style="list-style-type: none"> ● Fishery notice outlining the hail requirements - can be in the fishery opening notice. ● Action - Terry/Brenda finalize COL – communicate with regs. ● Amber contacted Chris Manor to hold gillnet CoL temporarily. <p>ii) Issues: TAC size and long fishery. FN responses to fishing in some areas.</p> <ul style="list-style-type: none"> ● Gillnet test - designate a test vessel through HCRS licence. Inform decision to open fishery. ● Trying to avoid opening on poor quality fish. <p>g) C&P: Monte Bromley</p> <ul style="list-style-type: none"> ● Nil (Monte not available today) ● Amber - Set-up meeting with C&P pre-season <p>h) First Nations</p> <p>i) Communication Coordinator – Warren Johnny</p> <p>ii) First Nations Pre-Season Meeting – Feb 15</p> <ul style="list-style-type: none"> ● Discussion - Test charter vessel master and crew member (Barry & Russel) attending meeting to discuss accessing FSC fish from test vessel. ● Send Matt meeting request. <p>iii) Management Issues: Providing information and access to FN. Pre-season and in season meetings.</p>
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	<ul style="list-style-type: none"> • Cholera impacted areas are still closed – meetings <ul style="list-style-type: none"> ◦ Feb 11- Review RAO – Amber, Brenda, Bryan ◦ Feb 14 -Next steps – Amber, Victoria ◦ Hope to get advice to revoke the closure and issue a fishery notice with key pieces of information and links. <p>4) WCVI Herring</p> <p>a) Management Resources –FN charters</p> <ul style="list-style-type: none"> • All set-up, they have all of the equipment. Matt can give extra supplies to Mike to distribute if needed. • Contract with Ma-nulth, Area 23, Toquat, Hesquiat (fuel only?), Nuchatlitz, mowachat-muchatlat • Jared going to go out with Rufus to help with data control. • Matt/Mike - Follow-up on the contracts that are in place. How are we contracting it? • Mike - directing FN charters <ul style="list-style-type: none"> ◦ List of volunteers. ◦ Phone First Nations pre-season to make plans. ◦ Send updates to Fishery managers (get contacts from Kevin C). <p>b) Management Staff and work items</p> <ul style="list-style-type: none"> • Ryan - flights • Mike - everything else. <ul style="list-style-type: none"> ◦ Fishery notices <p>c) Area 27 SOK</p> <ul style="list-style-type: none"> ◦ Mike will manage area - Greg H can check it out if reports of spawn. ◦ Bryan can send the contacts to Mike. Mike will follow-up to see if they are planning to fish. ◦ If fishing SOK, would need more involvement. <p>d) First Nations</p> <ul style="list-style-type: none"> • Providing information and access to FN. Preseason and in season meetings schedules. • Jared Dick is going to a meeting next week to clarify Ahousat concerns about geoduck harvest. There is a 2 month closure, are there other areas of concern? <p>5) Other</p> <p>a) Region</p> <ul style="list-style-type: none"> • Brenda – set-up weekly calls • Following up with TC - Michael Barker - add to distribution lists. • Bryan – Follow-up with Allan Moore (CCG) regarding management platform for next year - Tully - not a practical vessel for this purpose • Not doing ASO this year. Asked for \$35K for next year - need to plan within SCA to support • Amber/Bryan - Send letter to DND Nanoose
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	<ul style="list-style-type: none"> Amber - Set-up pre-season meeting with JOT <p>b) Upcoming Herring dates:</p> <p>Feb 6: IFMP approval - RDG has provided some areas that need to be revised - it is with Science right now. Once it goes to RDG shouldn't take long.</p> <p>Fishery Notices to be issued pending IFMP approval:</p> <ul style="list-style-type: none"> RM Fishery Notice - IFMP approval - Victoria will send out letters to FN and stakeholders then issue FN. PFLU Fishery Notice - Licensing update with quota and licenses held in inventory. <p>Feb 12: F&B closes</p> <p>Feb 20: Roe Test Charter Commences - 27 days (tentative)</p> <ul style="list-style-type: none"> RM (Amber/Bryan) Fishery Notice - First in-season update <p>Feb 25: Management Platform Commences - 15 days (tentative)</p> <ul style="list-style-type: none"> RM (Amber/Bryan) - Daily on-grounds updates and Fishery Notices <p>c) Upcoming Leave:</p> <ul style="list-style-type: none"> Brenda on leave Mar 25-Apr 5 Amber leave - last week of March.
Relevant Documents	<p><<Roe Herring Flight Assessments-2019.doc>></p> <p>Links:</p> <p>IMAWG Spawn FB Link</p> <p>https://www.facebook.com/Pacific-Herring-Spawn-Reporting-IMAWG-235805230690783/</p>
Action Items	<ul style="list-style-type: none"> Bryan will follow-up to confirm SOG flight coordination – completed – flight coordinator is Stewart Pearce. Amber - Set-up preseason meeting with Seair. – completed – Feb 19 Stewart – Send out request for expression of interest to participate in SOG spawn flights - Resource Management, Warren Johnny (First Nations) and Monte Bromley (C&P). Ryan - Send out request for expression of interest to participate in WCVI spawn flights to Resource Management, First Nations, Port Alberni C&P. Amber update spawn flight procedures. Ryan will follow-up with Paul to see if he has additional funds for flights. Ryan to follow-up with Louis to make sure invoices are legible. Ryan / Stewart – Ensure invoices are sent directly to science admin (Melody Halland), cc' flight program coordinator. Bryan & Greg T - Developing guidelines for industry test vessels. Kristen - test gear available on the dock by Feb 15. Matt - Contact for dive gear Amber/RM – Continue working with licensing to get licence eligibility holders in scope. Provide PFLU with final quota calculations. Terry/Brenda review & finalize pool rep reporting requirements in gillnet COL – communicate with regs. - Completed

	<ul style="list-style-type: none"> • Amber - Follow-up with Regs on status of CoL and ensure submitted to PFLU prior to licence issuance – Completed • Amber – Coordinate updates for Area resource lists. Distribute to RM/Industry - Completed • Everyone - IMAWG Spawn Flight Poster – distribute as appropriate. • Bryan lead on-grounds manager, will coordinate start of Management Platform and test vessel. • Amber - Update Email distribution – External/Spawn Flights • Bryan - Update txt distribution • Amber - Update Fishery Notices/Radio Updates with aquaculture wording • Amber – Coordinate MARS fish pick-up • Matt/Mike - Follow-up on the FN contracts that are in place. • Mike - directing FN charters - List of volunteers; phone First Nations pre-season to make plans; send updates to Fishery managers (get contacts from Kevin C). • Bryan -send A27 the contacts to Mike. • Mike - follow-up with A27 to see if they are planning to fish. • Brenda – set-up weekly calls in-season calls. • Bryan – Follow-up with Allan Moore (CCG) regarding management platform for next year. • Amber/Bryan - Send letter to DND Nanoose
Meetings	<p>Aquaculture (DFO internal) - Feb 4</p> <p>Charter Skippers Meeting - Feb 5</p> <p>QARS MSE - Feb 7 (Halalt)</p> <p>Vibrio Inter-Agency – Risk Advisory Opinion Review – Feb 11</p> <p>Vibrio Inter-Agency – Next Steps - Feb 14</p> <p>JOT – Feb 12</p> <p>C&P - Feb 14</p> <p>First Nations Planning Meeting - Feb 15</p> <p>Denman/Hornby Island Meeting - Feb 18</p> <p>Seair – Feb 19</p> <p>Post-Season SCA Meeting – TBD (amber set-up)</p> <ul style="list-style-type: none"> • Week before herring week (week of Apr 22). Note Apr 22 is Easter Monday.

Roe Herring Flight Assessments: Strait of Georgia

Roe herring flight assessments are conducted annually throughout the herring season in the SOG primarily to track spawning events but also in support of the fisheries and at times to locate stocks. Over flights can be an effective way of assessing large areas for spawn and in some cases for stock presence, in a relatively short period of time given the right light, wind, and sea conditions.

The first flights are generally done early in season when the first small spots spawns are observed/reported. Although an early season first flight should be considered even without any reported spawning as is useful to ensure that the pilot, aircraft, GPS, and communication system can be tested when there is relatively little activity and the time to make any necessary adjustments/repairs. Safety is the number one priority and the initial flight is an important opportunity to assess and ensure that one feels safe and confident with the pilot's skills, habits, and judgement as well as the maintenance and condition of the aircraft. Remember if you don't feel safe don't go. Also one must observe the government standing offers in the area and generally can choose between more than one operator and feeling and being safe while doing this work is essential.

Generally most flying for spotting roe herring spawn and stock is done "low and slow" in good weather conditions through the expected critical areas to assess spawn, stock moving in the spawn, or fish rolling in and off the beach. An altitude of 500 feet with more "flap" is preferred, with the plane following the shoreline contour allowing the "spotter" (in the front seat opposite the pilot) to look directly into the water from the upper intertidal area to depths of 20 to 30 feet at the slowest safe speed in critical areas. Abrupt turns may be required to see fish in the shallows as they are most visible if directly over head. It is useful/recommended to consult recent sounding information before each flight in order to know generally what areas have been sounded/assessed and where stocks have been located to that time and to know their maturity if tests have been done. In addition, it is important to be familiar with the local areas in order to know if there are specific conditions in an area, such as areas where there are silt washes that can mimic spawn.

Aircraft should be equipped with all safety gear, EPIRB, radios, and a GPS tracking system so any spawns observed can be quantified as their length. Spawning intensity is normally classified as to the amount of milt in the area and described as very light, light, medium, heavy or intense, and very heavy or intense. Also if flying in an area and at time the gillnet fleet is working the number of gillnet punts (and nets) should be counted and the rate of fishing or "shaking" should be quantified as light, medium, and heavy. "Light shakes" generate 500 to 2000 lbs per shake, "Medium shakes" 2 to 3 tons per shake and Heavy Shakes 3++ tons per shake. This information can be relayed over the radio to management staff on the grounds while in flight.

In areas that have not been sounded recently it is useful to note locations and concentrations of sea birds, seals, and sealions as indicators of possible fish presence and to include this information with the spawn summary to the managers on the grounds.

Often these animals will be on fish especially if concentrated in number. Fish in shallow waters appear as dark masses initially, similar to vegetation patches... but they move and will flash in the right light – try to hold your head still and look at the dark patches long enough to see if they change in shape. Then try to turn on these schools while directly overhead for a better view and insight into how much fish may be showing. Areas of active spawn should always be quantified by length and intensity. The spawn record for the area should be updated as soon after the flight as is possible and any stock information, wildlife presence, should be relayed to the managers on the grounds as soon as possible.

Flight information is called into the on grounds vessel on the DFO radio (3C) during the flight so that the flight information can be updated and distributed as soon as possible. When passing the information over the radio, it is good to use a consistent format for the person who is recording the information, as it can be difficult to hear over the radio and plane noise. Using *area of spawn*, *length of spawn* and *intensity of spawn* for each transmission assists in recording information. Relative spawn distribution for previous days (expanding, or reduced for example) is also useful. The DFO frequency is monitored by external people so it is important to keep information clear, brief, and professional. Spawn locations are recorded on charts of the area, and transcribed onto charts for distribution to managers, and dive vessels following the flight.

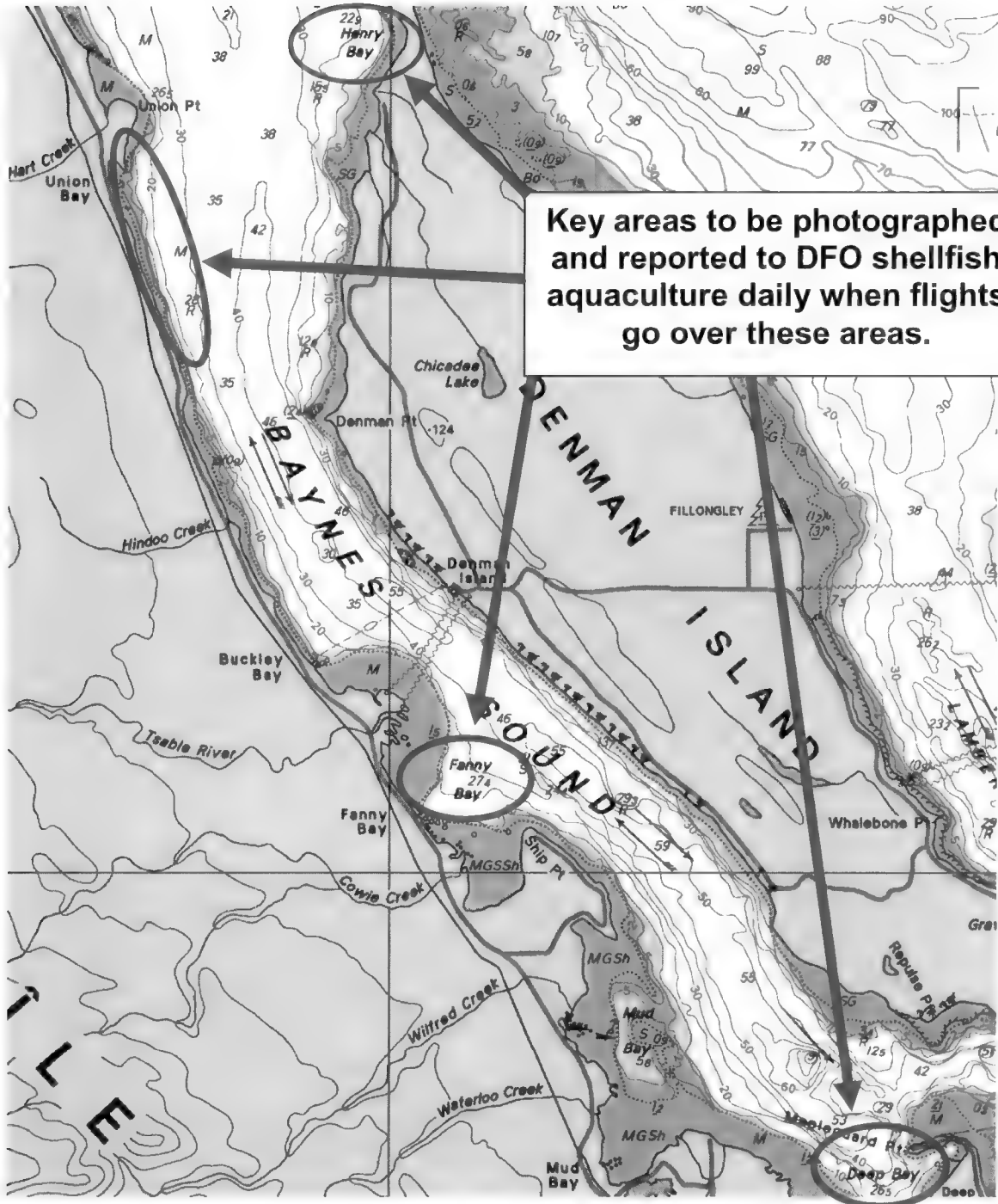
NEW 2019 – PUBLIC HEALTH AND SHELLFISH AQUACULTURE

The presence and potential discharges from the roe herring fleet in close proximity to shellfish harvest areas poses potentially serious health risks for shellfish consumers. DFO has committed to assisting Environment and Climate Change Canada in assessing herring vessel congregations that may trigger precautionary shellfish harvest closures under the Canadian Shellfish Sanitation Program (CSSP). When flights take place over identified key areas, those conducting spawn flights will be required to take photos of those areas and submit a brief report to DFO shellfish aquaculture daily, who will in turn coordinate a report to ECCC. Key Shellfish Aquaculture Harvest Areas:

- Deep Bay
- Fanny Bay
- Henry Bay
- Union Bay

Information to be provided to shellfish.aquaculture@dfo-mpo.gc.ca following each flight:

- Date/Time of flight
- Photos of key areas
- Contact information of the person flying



Neuman, Amber

From: Pearce, Stewart
Sent: 2019-March-21 1:04 PM
To: Neuman, Amber
Subject: RE: PO for Seair flights

Hi Amber,

Looks like the budget has been sorted out, just waiting for Seair to sign the PO.

Thanks for the offer to fly on the weekend but we have things covered, sounds like Matt wants to fly Saturday and I will fly if he changes his mind. I have not heard from Nicole – there's always room if she is still interested.

Matt did not seem to think it was necessary to fly south of Nanaimo today but perhaps we should adjust our flight plan for the flights next week? Perhaps only as far north as Lower Baynes Sound/Lambert Channel/Lower Hornby and then go south from Nanaimo afterward? I will send out a group email to Bryan and Matt to see what they think.

Cheers,

Stew

From: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Sent: March 20, 2019 3:30 PM
To: Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>
Subject: RE: PO for Seair flights

Hi Stew,

I hope you were able to sort everything out with Bryan and Julie regarding the RM standing offer under Bryan's budget. Let me know if I can help with anything.

I am off all of next week but if you need anyone to fly this week/weekend or in early April, I am available.

I also wanted to see if you were able to make arrangements with Nicole Frederickson (IMAWG) to go up on a flight? If you want me to follow-up at all, let me know.

Finally, did Bryan talk to you about flying south of Nanaimo? If not, maybe touch base with him. I'm thinking we should start flying south sooner rather than later.

Cheers,

Amber Neuman

Tel: (250) 756-7246 | Cell: (250) [REDACTED]

s.16(2)(c)

From: Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>
Sent: 2019-March-20 2:39 PM
To: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Cc: Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>; Preston, Paul <Paul.Preston@dfo-mpo.gc.ca>
Subject: Fw: PO for Seair flights

Hi All,

Please see my correspondence with Julie below regarding the status of the PO for \$7500 - looks like the process is underway but may be in limbo until Janice returns?

The PO for funds from Paul Preston (\$2100) has been signed by Seair and returned to Paul for finalization. So it looks like we are good to fly with those funds tomorrow however the status of the \$7500 is yet to be determined.

Stew

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>
Sent: Tuesday, March 19, 2019 4:22 PM
To: Pearce, Stewart
Subject: RE: PO for Seair flights

Janice has a call-up under Bryan's name that was originally entered for \$5K in February and Janice increased to a total of \$7.5K last week. I can't access her sent mail to see if she sent a PO for signature, but it is approved in Abacus. It says for herring-- this is what you're looking for? The PO# is F1582-180028.

Thanks,

Julie Knox - Admin Officer

Julie.Knox@dfo-mpo.gc.ca / Tel: 250-756-7288

From: Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>
Sent: March-19-19 4:11 PM
To: Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>
Subject: Re: PO for Seair flights

Yes. The first PO was \$2100 contributed from Paul Preston. Bryan is contributing an additional \$7500 from his budget (\$9600 total).

Stew

Sent from my BlackBerry 10 smartphone on the Rogers network.

From: Knox, Julie
Sent: Tuesday, March 19, 2019 3:55 PM
To: Pearce, Stewart
Subject: RE: PO for Seair flights

This is different from the Seair PO you sent earlier today?

Thanks,

Julie Knox - Admin Officer

Julie.Knox@dfo-mpo.gc.ca / Tel: 250-756-7288

From: Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>
Sent: March-19-19 2:45 PM
To: Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>
Cc: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Subject: PO for Seair flights

Hi Julie,

Bryan has an additional \$7500 for the spawn flight program that we will need available asap (the original science budget of \$25k is now tapped). Bryan has informed me that a PO was being drafted for these funds, so I just wanted to confirm that the process is underway?

Cheers,

Stew

Sent from my BlackBerry 10 smartphone on the Rogers network.

Neuman, Amber

From: Knox, Julie
Sent: 2019-March-26 2:30 PM
To: Rusch, Bryan; Cleary, Jaclyn; Neuman, Amber
Cc: Thompson, Matthew; Haaland, Melody; Pearce, Stewart
Subject: RE: Seair flights F1582-180025 - no money left to pay remaining invoices

The PO# is F1582-180028 and it's for 7.5K

Thanks,

Julie Knox - Admin Officer

Julie.Knox@dfo-mpo.gc.ca / Tel: 250-756-7288

From: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>
Sent: March-26-19 2:26 PM
To: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Cc: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>; Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>; Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>; Knox, Julie <Julie.Knox@dfo-mpo.gc.ca>
Subject: RE: Seair flights F1582-180025 - no money left to pay remaining invoices

Hello Jacklyn,

We have another 9.5K that we have put into spawn flights from RM (2 separate sources) over and above the 25K from Science. I was under the impression that these were going to be sent to RM to be dealt with but it sounds like they have not. At this point I'm not sure what the easiest way to go about this is so I've copied Julie who is filling in for Janice for the RM portion of funding.

Thanks,

Bryan

From: Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca>
Sent: Tuesday, March 26, 2019 2:21 PM
To: Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>; Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Cc: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>; Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>
Subject: Re: Seair flights F1582-180025 - no money left to pay remaining invoices
Importance: High

Also- we are overspent on SOG flights so please let me know if RM have more than 5K to contribute.

Jaclyn Cleary

Program Head- Pacific Herring
Quantitative Assessment Methods Section (QAMS)
Stock Assessment and Research Division, Science
Fisheries and Oceans Canada, Government of Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tel: 250-756-7321

Section de méthode d'évaluation quantitatif (SMEQ)
Division de l'évaluation des stocks et de la recherche, Science
Pêches et océans Canada, Gouvernement du Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tél: 250-756-7321

On Mar 26, 2019, at 2:15 PM, Cleary, Jaclyn <Jaclyn.Cleary@dfo-mpo.gc.ca> wrote:

Bryan, Amber:

Do you know have the coding for the extra 5K for spawn flights in SOG (being paid for by RM)?

Jaclyn Cleary

Program Head- Pacific Herring
Quantitative Assessment Methods Section (QAMS)
Stock Assessment and Research Division, Science
Fisheries and Oceans Canada, Government of Canada
Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tel: 250-756-7321

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Email: Jaclyn.Cleary@dfo-mpo.gc.ca / Tél: 250-756-7321

On Mar 26, 2019, at 2:12 PM, Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca> wrote:

Hi, I have 3 invoices from Seair but no money left to pay it from the Call-up? I have the March 17, 18 & 19, 2019 invoices. Invoice No. 31540, 31541 and 31543.

And after looking through the spreadsheet, I apologize but I missed submitting Invoice No. 31532 March 13, 2019 and 31533 March 14, 2019 invoices (listed as 31352 and 31353 on attached spreadsheet) which I can submit today to DFO Invoicing. So technically 5 invoices from Seair to pay but the call-up has no money left to pay them from the \$20k as per screenshot below, there's only \$419.60 left available to match for this Call-Up.

I've attached a copy of all the outstanding Seair invoices that still need to get paid. Please advise. In your email below you said "All other flights will now have to be under RM money and a new call-up needs to be in place" – what's the RM coding? Has a new call-up been put in place??? Please let me know. tx!!!

<image001.png>

Regards,
Melody Haaland
Administrative Assistant, Science Branch / Pacific Region - Stock Assessment & Research Division (StAR)
Fisheries and Oceans Canada / Government of Canada
melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071

From: Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>

Sent: March-20-19 9:13 AM

To: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>; Rusch, Bryan

<Bryan.Rusch@dfo-mpo.gc.ca>; Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>

Cc: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>; Cleary, Jaclyn

<Jaclyn.Cleary@dfo-mpo.gc.ca>

Subject: Seair flights

Good morning,

FYI. Including yesterday's flight (March 19th), we will have reached the cap of the 25k for the Seair science call-up (F1582-180025). All other flights will now have to be under RM money and a new call-up needs to be in place.

Thanks

Matt

<2019 Spawn Budget Summary SOG.xlsx><Outstanding Seair Invoices F1582-180025.pdf>

Neuman, Amber

From: Thompson, Matthew
Sent: 2019-March-28 1:20 PM
To: Knox, Julie; Mattu, Janice
Cc: Haaland, Melody; Rusch, Bryan; Neuman, Amber; Palfrey, Terrence; Cleary, Jaclyn
Subject: Seair call-up for April
Attachments: Steps for Herring Flight Callup.docx

Hi Julie,

Can you please proceed for a call-up for Seair starting April 1st 2019 for 5K. Attached is the call-up process we used for our March call-ups.

Thank you,

Matt

Steps for Herring Flight Call-Ups:

Flight Location	Area	Local Herring Manager	Office Manager	Flight Operator	Address	Standing Offer	Call-Up Amount 2018/2019 fiscal
Prince Rupert	PRD	Jennifer Gordon	Sandra Cardoso	Inland Air Charters	Box 592, Prince Rupert BC V8J 3R5	E60SQ-020001/097/SQ	\$5,000
Central Coast	CC	Brad Koroluk	Melany Rambo	Wilderness Seaplanes	PO Box 121, 3675 Byng Rd, Port Hardy BC V0N 2P0	E60SQ-020001/454/ZL	\$15,000
Strait of Georgia	SOG	Amber Newman	Janice Mattu	Corilair Charters LTD	PO Box 1451 Stn A, 3050 Spit Rd, Campbell River BC V9W 5G5	E60SQ-020001/060/SQ	\$5,000
Strait of Georgia	SOG	Amber Newman	Janice Mattu	Seair Seaplanes	4640 Inglis Drive, Richmond BC V7B 1W4	E60SQ-020001/152/SQ	\$20,000
West Coast Vancouver Island	WCVI	Ryan O'Connell	Janice Mattu	West Coast Wild Adventures	Box 107, 944 Peninsula Rd, Ucluelet BC V0R 3A0	E60SQ-020001/264/ZL	\$20,000

Collator: 51880-810-120-xxxx-52101

Each Area office will create the call-up(s) and enter into Abacus

- cc Melody Haaland on call-ups

Local managers to collect flight operators signatures and returned to Melody

- Melody for Section head signatures

Invoices

- All invoices to Melody for payment directly from flight operator
- Expenditures tracked by Melody and Matt

Neuman, Amber

From: Cleary, Jaclyn
Sent: 2019-April-04 9:57 AM
To: Neuman, Amber
Subject: Fwd: Spawn Flight Budget update

Appreciate not needing another flight for the Strait. The money doesn't actually exist in this FY (yet) so no need to spend the remaining 1.2k :)

Begin forwarded message:

From: "Haaland, Melody" <Melody.Haaland@dfo-mpo.gc.ca>
Date: April 4, 2019 at 9:38:25 AM PDT
To: "Cleary, Jaclyn" <Jaclyn.Cleary@dfo-mpo.gc.ca>
Subject: FW: Spawn Flight Budget update

FYI

Regards,

Melody Haaland

Administrative Assistant, Science Branch / Pacific Region - Stock Assessment & Research
Division (StAR)
Fisheries and Oceans Canada / Government of Canada
melody.haaland@dfo-mpo.gc.ca / Tel: 250-756-7071

From: Neuman, Amber <Amber.Neuman@dfo-mpo.gc.ca>
Sent: April-04-19 9:37 AM
To: Palfrey, Terrence <Terrence.Palfrey@dfo-mpo.gc.ca>; Rusch, Bryan <Bryan.Rusch@dfo-mpo.gc.ca>;
Thompson, Matthew <Matthew.Thompson@dfo-mpo.gc.ca>; Pearce, Stewart <Stewart.Pearce@dfo-mpo.gc.ca>
Cc: Haaland, Melody <Melody.Haaland@dfo-mpo.gc.ca>; Mattu, Janice <Janice.Mattu@dfo-mpo.gc.ca>
Subject: Spawn Flight Budget update

Hi everyone,

Just an update that there is approximately \$1,200 remaining in the Science budget for spawn flights (PO F1582-190001). If we wanted to use the remaining funds, we could go up for a relatively short flight (~1.2 hr). Right now I'm not sure any further flights are necessary. I let our pilot, Terry know that Wednesday was likely our last flight so Seair is planning on putting the cesna in storage on Friday unless they hear otherwise from us. If you do think we need another flight, please let me know asap so we can make arrangements with Seair.

Cheers,

Amber Neuman

s.16(2)(c)

Resource Manager – Herring

South Coast Area, Resource Management Branch, Pacific Region

Fisheries and Oceans Canada | Government of Canada

Amber.Neuman@dfo-mpo.gc.ca | Tel: (250) 756-7246 | Cell: (250) [REDACTED]

Gestionnaire des Pêches - Hareng

Secteur de la Côte Sud, Gestion des ressources, Région Pacifique

Pêches et Océans Canada | Gouvernement du Canada

Amber.Neuman@dfo-mpo.gc.ca | Tél : (250) 756-7246 | Tél cell. : (250) [REDACTED]